CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Reservoirs and hydro-electric plants, Bryan, Tex., Brazos River Reclamation Ass'n. making plans, $50,000,000.

Schools, Chicago, Ill., Bd. Educ. having plans prepared, seven new high schools, $20,000,000.

Oil pipe line, Texas, Humble Pipe Line Co. making preliminary plans, $10,000,000.

Waterworks, Fort Worth, Tarrant Co., Tex., Water Control League, bond election Oct. 8, $6,500,000.

Apartment hotel and club, Chicago, Ill., Bryn Mawr Beach Hotel Co. plans, $5,000,000.

Temple, San Francisco, Calif., Islam Temple of Mystic Shrine plans Masonic Temple, $5,000,000.

Railway, Houston and Port Arthur, Tex., W. Doherty, pres., made plans, $4,000,000.

Paper mill, Port Townsend, Wash., Zellerbach Paper Corp., plans, $4,000,000

Street, Los Angeles, Calif., City plans paving, $3,145,000.

Apartment, Philadelphia, Pa., M. A. Bernhardt, archt., preparing plans, $3,000,000.

Irrigation, Grass Valley, Calif., Nevada Irrigation Dist., making plans, $2,200,000.

Bridge, Texas, J. W. Billingsley, New Orleans, La., plans, $2,000,000.

Hotel, Oklahoma City, Okla., Syndicate having preliminary plans prepared, $2,000,000.

Apartment, Chicago, Ill., P. F. Reynolds, having plans prepared, $2,000,000.

Club, San Francisco, Calif., Decimo Club having plans prepared, $2,000,000.

Hotel, club, gymnasium and garage, San Antonio, Tex., San Antonio Turn Verein had plans prepared, $1,500,000.

Office, Tulsa, Okla., R. T. Daniels, having preliminary plans prepared, $1,500,000.

Office, Tulsa, Okla., C. C. Cole, having preliminary plans prepared, $1,500,000.

Hotel, Seattle, Wash., H. A. Vance, had plans prepared, $1,500,000.

Hotel, Cleveland, O., Cleveland Hotel Co., having plans prepared, $1,500,000.

Sewage treatment plant, Chicago, Ill., Sanitary Dist. of Chicago, plans, $1,500,000.

Studio, Hollywood, Calif., L. West having preliminary plans prepared, $1,400,000.

Sewers, Oklahoma City, Okla., made preliminary plans, $1,100,000.

Apartment hotel, Fort Worth, Texas, G. T. Vickers, having plans prepared, $1,000,000.

Street lighting system, St. Louis, Mo., Bd. Pub. Serv. takes bids in November, $1,000,000.

Hotel, Oklahoma City, Okla., L. W. Wentz having preliminary plans prepared, $1,000,000.

Roundhouse, machine shop, etc., Tecumseh, Ont., Canadian Nat'l Ry., having plans prepared, $1,000,000.

Apartment, Charlotte, N. C., Charlotte Apartment House Corp. plans, $1,000,000.

Bids Desired

Aquarium, Chicago, Ill., Graham, Anderson, Probst and White, archts., taking bids, $3,000,000.

Bids Received

Theatre, San Francisco, Calif., H. A. Minton, associated archt., from MacDonald & Kahn, approximately $1,600,000.

Contracts Awarded

Dam, Seattle, Wash., Bd. Pub. Wks. to Winston Bros., Minneapolis, Minn., $2,546,388.

Bridge, Paducah, Ky., Paducah-Ohio Bridge Co. to Union Bridge & Constr. Co., Kansas City, Mo.; Wisconsin Bridge Co., North Milwaukee, Wis., and Rouse Constr. Co., Cape Girardeau, Mo. Grand total, $1,285,000.

Power plant, Beaumont, Tex., Gulf States Utilities Co. to Stone & Webster, Boston, Mass.; Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.; Babcock & Wilcox Co., New York, N. Y., Engrs. est., $1,000,000.

Apartment, Fordson, Mich., J. Schaefer, to Blair Constr. Co. Archts. est., $1,000,000.

News of the Week

Waterworks

Proposed Work

Pa., Pittsburgh—See "Unclassified."

Mich., Detroit—Dept. Water Supply making preliminary plans rein.-con., brick, steel and stone auxiliary pumping station, Water Works Park. $500,000. G. H. Fenkell, 176 East Jefferson Ave., gen. mgr.

Mo., Deepwater—City postponed indefinitely waterworks, distribution and sewerage system. $75,000. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs. Noted June 16.

Mo., Lockwood — Making preliminary plans complete waterworks and distribution system. To exceed $25,000. Engineer not selected.

Mo., Marceline — Making preliminary plans modernizing and extending water works and distribution system, incl. filtration plant. Black & Veatch, 700 Mutual Bldg., engrs.

Tex., McCamey—Pecos Valley Power & Light Co. made plans diversion 4,000 acre ft. water from Pecos River in Crockett Co., for generation pumping plant. $100,000 incl. machinery. Private plans.

Tex., Quanah—Northern Texas Utilities Co., Wichita Falls, making plans 50 x 300 ft., concrete and steel pumping plant, near here. $200,000. Private plans.

Tex., Rio Hondo—Voted $15,000 bonds, waterworks, incl. mostly equipment, pumping unit, pipe, etc. Address C. E. Mallern, Rio Hondo. Noted Aug. 18.

Okla., Crescent—Voted $15,000 bonds, digging well and installing pump, motor and extending 10,000 lin.ft. 4 and 6 in. c.i. mains in various streets. F. B. King, Grain Exch. Bldg., Oklahoma City, engr.

Okla., Sentinel—Making plans new water supply. $75,000. C. A. Wood, Stillwater, engrs. Noted July 7.

Colo., Pueblo — Trustees Pueblo Water Wks., c/o D. P. Porter, supt., 4th St. and Grand Ave., soon takes bids 8,500 ft. 40 in wood stave, concrete or iron mains from Reservoirs to pumping plant.

Wash., Port Townsend—City and Zellerbach Paper Corp., 1254 1st St., Seattle, plan 30 mi. 30 in. pipe line delivering 16 m.g.d. Baar & Cunningham, Spaulding Bldg., Portland, Ore., engrs. Noted Sept. 15.

Ont., Brampton—Making plans extending waterworks, new mains, valves, hydrants, centrifugal pumps, etc. $50,000. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, engrs.

Ont., Markham—Made plans 100,000 gal. rein.-con. reservoir. $15,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Ont., Niagara Falls—F. A. Dallyn, engr., 71 King St. W., Toronto, making plans rein.-con. and concrete waterworks filtration system, 20 m.g.p.d., pumps, piping, pumphouse, valves, filters, filter beds and reservoirs, here, for City. $500,000.

Bids Desired

N. Y., Brooklyn — Sept. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues O, R and V, Albany, Nostrand, and Voorhies Aves., Dikeman, Harling, Lake Sts., etc., here.

N. Y., Long Island City—Sept. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 39th, Borden, Elliot, and 31st Aves., 85th, 156th, 162nd, 168th, 211th, 213th Sts., etc., here.

N. Y., New York—Sept. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in West 182nd St., Amsterdam and St. Nicholas Aves.

Md., Baltimore—Sept. 28, by Bd. Awards, 6,084 lin.ft. 10- to 42-in. mains, etc., in Argonne Dr. E. G. Rost, City Hall, acting water engr.

Va., Victoria—Oct. 4, by Town, G. R. Marshall, town clk., waterworks and sanitary sewerage systems, incl. 2 deep wells and pumps, steel tower and tank, 20,064 ft. 6- to 20-in. c.i. and 27,000 ft. 1½ in. galvanized steel pipe, 50 fire hydrants, 94 valves, 67,035 ft. sewer pipe, 2 duplex sewer pumping stations, 1 septic and 2 Imhoff tanks, 3 sludge beds, etc. J. B. McCrary Eng. Corp., Citizens & Southern Bank Bldg., Atlanta, Ga., engrs.

O., Bay (br. Cleveland)—Sept. 27, by Village, mains in Donald Dr. and Russell Rd.; also sewer in Donald Dr., and walks on Woodland Rd. Wight-O'Rourke Co., Guarantee Title Bldg., Cleveland, engrs.

O., Cleveland—Sept. 28, by Bd. Comrs. Cuyahoga Co., 8,500 ft. 6- to 12-in. c.i. mains in Hall, Walter and Florence Rds. To exceed $25,000. F. Williams, Court House, engr.

O., Fostoria—Oct. 6, at office E. A. Shuman, dir. Pub. Serv., improving waterworks plant. J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa., engrs.; adv. E. N.-R. Sept. 22.

O., Trenton—Sept. 23, by Village Council, P. Schumacher, acting clk., pump house and connections, two 35,000 gal. motor driven pumps, 16,000 ft. 4- to 8-in. c.i. pipe, and elevated tank, 75,000 gal. capacity, $47,000. C. Wright, 806 Dayton Savings Bldg., Dayton, engr.

Ill., Lake Forest—Oct. 11, by City Clerk, waterworks pumping equipment; adv. E. N.-R., Sept. 22.

Wis., Janesville—Oct. 5, by Comm. Pub. Wks., rein.-con. reservoir, 250 ft. diam. and 26 ft. high, for Water Dept. B. M. Palmer, chn.; adv. E. N.-R., Sept. 22.

Ia., Osage—Sept. 29, by A. S. Wright, city clk., 400 g.p.m. air lift pumping station, etc.; adv. E. N.-R., Sept. 22.

See proposal advertising on page 123

Constr. News page 143

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Waterworks engineers and superintendents prefer to use Leadite for joints—*It assures them that the pipe line will be completed and a revenue producer well within the time allowance.*

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These lines are in one of the fastest growing cities in the South. The speed of Leadite jointing makes it possible to lay pipe fast enough to keep up with the new building and real estate expansion.

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Tested and used for over 30 years

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NO CAULKING

Waterworks (Continued)

Tex., Galveston—Taking bids 1 deep well, not less than 1 m.g.d., near Alta Loma pumping station. Address A. T. Lange, Galveston, city water comr.

Okla., Ryan—Taking bids waterworks equipment and mains, pumps, etc. in various streets. $15,000. Address Mayor. Noted Aug. 18.

Ont., Thorold—Sept. 27, by J. A. Clark, twp. clk., Fonthill, 13,800 ft. 4- to 8-in. c.i. main, special castings, gate valves, fire hydrants, etc., Contr. A; reservoirs and pumphouse, Contr. B; and main drain, Contr. J. $40,000. Ross & Scott, Welland, engr. W. Chipman, Mail Bldg., Toronto, consult. engr.

Bids Received

N. Y. Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Sept. 16, mains in Avenues J, L, M and Q, Benson, Stanley, Canal, Flatlands, Hegeman Aves., etc., here, from Draganette Constr. Co., 1123 Clinton Ave., New York City, $15,940. Noted Sept. 8.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bleecker, Greene and Grove Sts., etc., here, from Norton Constr. Corp., 21 East 40th St., New York City, $39,100. Noted Sept. 8.

Calif., San Luis Obispo—San Luis Obispo Co., c.i. mains, etc., in San Miguel Rd., etc., to C. Fisher, Chapman Bldg., approximately $32,000.

Contracts Awarded

Mass., Westfield—Dept. Pub. Wks., earth dam and Granville Reservoir, to C. & R. Constr. Co., 75 Bradeen St., Roslindale, $429,775. Noted Aug. 18.

O., Cleveland—Cuyahoga Co., 6,900 ft. 6 and 12 in. c.i. main in Dover Center Rd., Impvt. 1256, and main in Chipewa Rd., to Great Lakes Constr. Co., 1120 Chester Ave., $30,528 and $23,542 respectively; also 6,800 ft. 6 and 8 in. c.i. in Washington Blvd. and Sunset Rd., Impvt. 370, to George & Ameen Co., Erie Bldg., $17,434. Grand total $71,504.

Ill., Libertyville — Bd. Local Impvts., 15,150 ft. 6 and 8 in. mains, etc. in Sayre Ave., to J. Brogan & Son, Green Bay, Wis., $26,509. Noted Aug. 25 under "Sewers."

Ill., Niles Center — Laramie-Brummel Water Mains, incl. 6- to 12-in. c.i. pipe, etc., to O'Brien Bros., 152 North Central Ave., Chicago, $20,969. Noted Sept. 1.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., 18,016 ft. 6- to10-in. c.i. mains in various streets, to Meirswa & Helms, 577 Jefferson St., Oshkosh, $14,650.

Neb., Lincoln—For 15,000 ft. 6- to 10-in. c.i. mains, 17 hydrants, 30 valves and 8,292 lb. special castings, etc. in Dist. 109, to Knudson Co., Bankers Life Bldg. $21,186.

Neb., Union—C. B. Smith, village clk., to E. C. Archibald, Omaha, 8 in. tubular well, 125 ft. deep, 12 in. strainer, etc., $1,000, 80 g.p.m. single stroke pump $1,664, 15 hp., 3 phase, 220 volt, 60 cycle auto motor $244, and install pump and motor $393; to Omaha Steel Works, 48th and Leavenworth Sts., Omaha, 40,000 gal. tank on 90 ft. tower $5,600; to United States Cast Iron Pipe & Foundry Co., 604 Interstate Bldg., Kansas City, Mo., 8,164 ft. 2- to 8-in. c.i. pipe $2,230 and pump house, etc. $750; to Crane Co., 323 South 10th St., Omaha, 10 hydrants, etc. $646. Grand total $16,620. Noted Sept. 1.

Mo., Macon—W. A. Tibbs, city clk. improving waterworks, 90,000 cu.yd. earth embankment, 1,050 cu.yd. concrete, two 700 g.p.m. pumps, 9,708 ft. 12 in. c.i. pipe, also rein.-con. and brick pumping station, to B. F. Brooks Constr. Co., Slaughter Bldg., Dallas, Tex., $108,439. Noted Aug. 18.

Okla., Seminole—Waterworks improvements, incl. 500 g.p.m. motor driven unit, 13,700 ft. 2- to 6-in. main extensions, etc., to Bensen & Farrar, Guthrie, $30,315. Engrs. est. $50,000. Noted Aug. 25.

Calif., Alhambra — To Natl. Cast Iron Pipe Co., Hellman Bank Bldg., Los Angeles, 2,300 ft. 14 in. c.i. pipe $4,600, and 2,400 ft. 4 in. $1,096, etc.

Ont., Elmvale—For 60,000 gal. steel tank, to Horton Steel Co., Bridgeburg; hydrants and gate valves, to Kerr Engine Wks., Walkerville; mains, to Natl. Iron Co., Cherry St., Toronto; laying mains, etc., to G. Simone, 10 Coleridge Ave., Toronto. Engrs. est. $35,000.

Ont., London—Utilities Comn., drilling test wells, casing and pumps for increasing water supply 1 m.g.p.d., to Layne & Bowler, Chicago Co., 37 West Van Buren St., Chicago, Ill.

Sewers

Proposed Work

N. J., Perth Amboy—Bd. City Comrs. plan 8- to 15-in. sewer in Colgate Ave. $36,000. P. P. Costello, city clk.

D. C., Wash. — Dist. Comrs., District Bldg., rejected bids May 24, sewers in various streets. Noted May 12.

O., Alliance—Bd. Control will not open bids Oct. 1, sewage disposal plant. Bids were opened Sept. 20. This corrects report in Sept. 8th issue.

Mich., East Grand Rapids (mail Grand Rapids)—Making plans sewage treatment plant addition, incl. tanks, housing structure, etc. $75,000. Pearse, Greeley & Hanson, 6 North Michigan Ave., Chicago, Ill., engrs.

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., making plans North Branch Sewage Treatment Plant, addition, $1,500,000; also miscellaneous buildings, electrical work and equipment for West Side Sewage Treatment plant; and new section Salt Creek Sewer, incl. 12 in. vitr. pipe to 7 ft. monolithic pipe, etc. E. J. Kelley, 910 South Michigan Ave., engr.

Ill., Marion—Bd. Local Impvts. takes bids about Oct. 3, complete sewage disposal plant, incl. pipe, pumping machinery, etc. $83,207. G. F. McCarthy, city engr. P. B. Wilson, 1st Natl. Bldg., consult. engr. Noted Mar. 17.

Ill., Mt. Vernon—Bd. Local Impvt. postponed indefinitely, 80,900 ft. 8- to 36-in. vitr. clay sewers, 219 manholes, 16 drop manholes, 82 lamp holes, sewage disposal plant, etc., in Sewer Dist. 41. H. C. Hammond, city engr. P. B. Wilson, 1st Natl. Bldg., Marion, consult. engr. Noted Mar. 17.

Ill., Woodriver — Making preliminary plans sewerage system, incl. disposal plant, etc. $200,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

N. D., Jamestown—State Bd. Administration, E. G. Wanner, secy., Bismarck, making plans sewage disposal plant at State Hospital for Insane. $40,000. J. M. Roherty, Capitol, Bismarck, state engr.

Mo., Hannibal—Making preliminary plans sewers in various streets, also straightening Bear Creek. G. W. Farrell, City Hall, engr.

Mo., Springfield—Soon takes new bids 18,011 ft. 8 and 10 in. sewer in Dist. 7, Sect. 8. S. R. Fisher, City Hall, engr.

Tex., Spearman — Voted $50,000 bonds, complete sewerage system. Devlin Eng. Co., 127 Central Bldg., Amarillo, engrs.

Okla., Crescent — Voted $25,000 bonds, sewerage system. F. B. King, Grain Exch. Bldg., Oklahoma City, engr. Noted Nov. 4.

Okla., Edmond—Defeated $35,000 bonds, extending sanitary sewers in various streets. F. H. Peckham, 227 West Grand St., Oklahoma City, engr. Noted May 12.

Okla., Ft. Cobb—Plans sewage disposal plant, and 20,000 ft. 8- to 12-in. sewers in all streets. $25,000. J. J. McLane, mayor. Engineer not announced.

Okla., Oklahoma City—Made preliminary plans 3 mi. storm sewers in northwest section city. $1,100,000. B. M. Hart, City Hall, engr.

Okla., Seminole—Made preliminary plans 14,000 ft. 8 and 10 in. vitr. clay sewers in Vernon Heights and Terrace Garden. $31,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Wash., Walla Walla—Making plans sewage disposal plant. $200,000. Pearce, Greeley & Hanson, 6 North Michigan Blvd., Chicago, Ill., consult. engrs. W. R. Rehorn, Walla Walla, city engr. Noted Feb. 24.

Bids Desired

N. Y., Brooklyn—Sept. 28, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in Kings Highway, 90th 67th, and 59th Sts.

N. Y., New York—Sept. 28, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Eastchester Rd., Young, Edwards and Ellison Aves.

Pa., Chester—Oct. 7, at office Supt. Streets and Pub. Wks., concrete relief sewer in 8th St., Contr. 3. R. C. Wheeler, 36 State St., Albany, N. Y, consult. engr.; adv. E. N.-R., Sept. 22.

Pa., Phila.—Sept. 28, by Dept. Pub. Wks., Bureau Engineering, main sewers in Hellerman and Large Sts., Taber Ave. between Sanger St. and Cheltenham Ave., and Taber Ave. between point north of Comly St. and Benner St. G. H. Biles, dir.

Md., Baltimore—Sept. 28, by Bd. Awards, sanitary sewers and storm drains in Dist. H-6 and H-13, Sanitary Contr. 245. M. J. Ruark, City Hall, sewerage engr.

Va., Victoria—See "Waterworks."

Ala., Birmingham—Oct. 3, by City Comn., approximately 1.5 mi. brick and concrete sewers in 10th Ave., 57th Alley, 53rd and 60th Places, 57th, 55th, 59th, 60th and 54th Sts. $264,900. A. J. Hawkins, city engr.

Tenn., Knoxville—Sept. 26, by Div. Pub. Service, trunk and lateral sewers, etc., incl. 25,000 ft. 8 in. concrete or vitr. clay sewers in Mountain View Sewer Dist. $50,000. L. Brownlow, city engr.

Mich., Detroit—Sept. 26, by Dept. Pub. Wks., 2,896 ft. 6½ ft. to 8 ft. cylinder monolithic concrete sewer in Goethe Ave. Arm east of Fisher Ave. P. A. Fellows, city engr.

Mich., Detroit—Sept. 26, by Dept. Pub. Wks. 5,511 ft. 4 to 7½ ft. cylinder monolithic concrete sewer in Vernor Highway Arm west of Fisher Ave. P. A. Fellows, city engr.

Ill., Chicago—Sept. 23, by Bd. Local Impvts., brick sewer with brick manholes in East 72nd and East 74th Sts., Merrill and Paxton Aves. M. J. Faherty, pres.

Calif., Los Angeles—Supervs. Los Angeles Co., taking bids sewers in Drainage Impvt. Dist. 21 (Montebello Dist., along Whittier Blvd.) $235,000. C. E. Arnold, Hall of Records, drainage engr. Noted Sept. 8.

Bids Received

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Sept. 15, sewer in Payson Ave., from J. V. Timoney Constr. Co., 220 East 201st St., $12,670. Noted Sept. 8.

N. J., Vineland—Bd. Boro Comrs., Boro Hall, Sept. 13, trunk sewer and settling tanks, from E. R. Morehouse Co., 315 Market St., Camden, $80,723. Noted Sept. 8.

Mo., Moberly — Sewage disposal plant, incl. Ludlow sluice and shear gates, vitr. clay valve boxes and sewer pipe, inceptors, Dorr clarifier and digester, etc., from Repass Bros., 502 Frankel St., Des Moines, Ia. $32,900; and brick repaving 5,040 sq.yd. Reed St., from Lynch-McDonald Constr. Co., Moberly at $2.19 per sq.yd. Total $13,104.

Calif., Los Angeles—Los Angeles Co., vitr. sewer in Cudahy St., Impvt. 548, from M. N. Guho, 5316-8th Ave., $186,858.

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., sewerage works in various streets, to C. Struzziery, 115 Kittredge, St., West Roxbury. Engrs. est. $25,000.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Kennedy & Smith, Inc., Bradford Ave., sewers in Burnside Ave. $1,426, 50th St. $1,250, and 65th Pl. $1,933; to E. Peterson, Hayes Ave. $47,696; to J. M. Johnson, Hosack Pl. $2,635; to Kew Contg. Co., Mineola, 25th Ave. $14,301; to Flushing Contg. & Eng. Co., 66 Wyoming Ave., Jamaica, 88th St. $7,037, and 107th Ave. $6,111; to P. J. Greenough, 9919 Guilford Ave., Forest Hills, 109th Ave. $1,087. Grand total $83,476. Noted Aug. 18.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in Roosevelt Ave., to A. Mannino & Co., 279 82nd St., Brooklyn, $18,841. Noted Sept. 1.

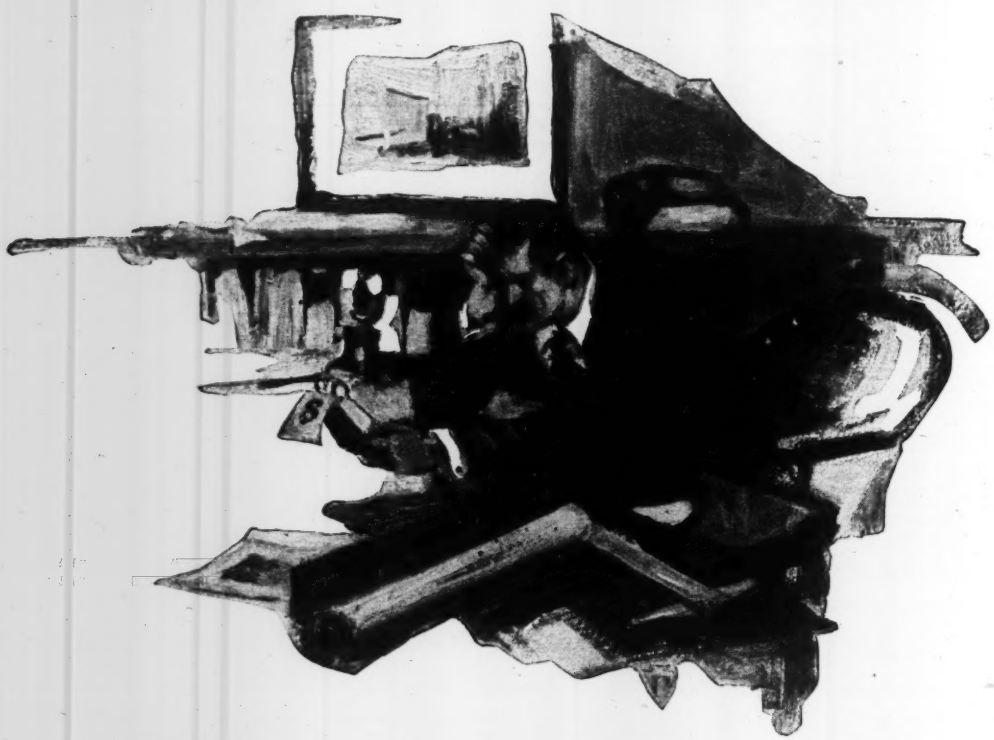
N. J., Hammonton—For 2,831 lin.ft. storm sewers, etc. in various streets, to P. B. Souder, Absecon, $11,013. Noted Sept. 1.

D. C., Wash. — District Comrs., District Bldg. to L. M. Johnson, Wash., D. C., upper Anacostia Main Interceptor Sewer, Sect. 1, $46,631, Wesley Heights, $9,196; to W. F. Brenizer Co., 101 New York Ave., N. E., $2,404, Connecticut Ave. Service Sewer, $1,045, Jay St., $2,164, Longfellow St., $1,327, Rhode Island Ave., $3,405, 58th St., $1,676, Replacement, $1,905 and 61st St., $2,706; to A. McCandlish, 196 Upshur St., N. W., Ellicott St. sanitary sewer, $2,764; to J. A. Forbes Co., 7401 7th Ave., Foote St., $3,423 and to G. B. Mullin Co., 1296 Upshur St., N. W., 16th St., $6,198 and $2,159. Grand total $89,630. Noted Aug. 25.

Ky., Georgetown—Approximately 6.5 mi. tile sewers and appurtenances in various streets, to Carey Reed & Co., 229 West Short St., Lexington, approximately $45,000.

O., Cleveland—For 1,264 ft. 6 x 8 ft. and 90 ft 6 x 9 ft., rein.-con. sewer in Kings-

Constr. News page 144



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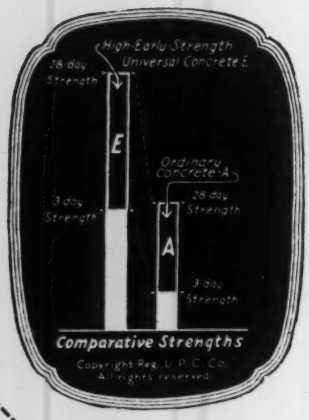

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Maybe thru unavoidable conditions a scheduled completion date is hard to meet.

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High-Early-Strength Universal Concrete is made by using fully tested methods with the usual materials, usual labor, usual equipment, and standard—not special——Universal cement. And it not only is as strong at *3 days* as ordinary concrete at *28 days*, but as it also has a higher *ultimate* strength it is *permanently* better and *stronger* concrete. (See diagram.)

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Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Sewers (Continued)

bury Rd., to Hildilch & Bobal, 2111 Broadview Rd., $46,684.

O., Columbus—W. H. Duffy, dir. Serv., 1,050 ft. 96 in. and 1,367 ft. 78 in. brick sewers in DeNune Ave. and Weber Rd. (North Linden Storm Sewer), to L. S. Gaty, 1544 East Broad St., $68,764. Noted Aug. 25.

Mich., Dearborn — Constructing North Side Trunk Sewer, concrete, etc., to J. A. Mercier, 616 Hammond Bldg., Detroit, $190,615.

Mich., Detroit—Dept. Pub. Wks., vitr. and concrete sewers in Laterals 4847, 4821, 4851 and 4884, to United Sewer Corp., 7323 Epinenon Ave., $71,611; and Lateral 4843, to Ianni Constr. Co., 3861 Doremus Ave., $143,353.

Ill., Elmhurst—For 12- to 59-in. vitr. tile sewers in various streets, to Gjellefold Constr. Co., Forest City, Ia., $316,574.

Ill., Libertyville — Bd. Local Impvts., 14,460 ft. 8- to 15-in. sewers, 49 manholes, etc. in Kenlock Park, to J. Brogan & Son, Green Bay, $34,140. Noted Aug. 25.

Mo., Springfield—Sewer in Dist. 4, Sect. 9, 10,800 ft. 8 in. pipe, 36 manholes, etc., to R. W. Langston, R.F.D. 3, $24,581; and concrete paving, etc., 2,395 sq.yd. Texas Ave., to Stigall Constr. Co., Benton and Talmadge Sts. at $1.45 per sq.yd.

Ark., Conway—For 85,180 ft. 8- to 12-in. vitr. clay and 18,343 ft. 12- to 18-in. c.i. sewers, disposal screen chamber plant, incl. diversion chamber, sludge bed, pump house, etc., to W. B. Carter, Tulsa, Okla., $126,798; clarifier and digester mechanism and sludge pump, to Dorr Co., Inc., 310 South Michigan Blvd., Chicago, Ill., $10,620 f.o.b. Conway; 2 in. centrifugal pump and 5 hp. motor, to Fairbanks Morse & Co., 217 South 8th St., St. Louis, Mo., $307 f.o.b. Conway. All above in Sewer Impvt. 2. Grand total $137,725. Noted Sept. 1.

Tex., Ft. Worth—City, O. E. Carr, mgr., sewer in Denver Ave., to Tarrant County Constr. Co., 1005 Calhoun St., $34,496.

Tex., Houston—Vacuum sludge filter system complete, used in enlarging North Side Sewage treatment plant, to United Filter Corp., 565 West Washington St., Chicago, Ill., $27,321, and 4 unit sludge dislodgers and concentrators for the settling tanks, to Dodge Mfg. Corp., Scanlon Bldg., Houston, $7,000. Noted Aug. 11.

Okla., Ada—L. Daggs, city clk., rebuilding and enlarging sewage disposal plant, to Fry Bros. Co., Ada, $39,831. Engrs. est. $45,000. Noted Aug. 18.

Okla., Seminole—P. Noe, city clk., sewage disposal plant and 11,000 ft. 15 in. vitr. clay outfall sewers in various streets, to Bensen & Farrar, Guthrie, $26,210. Engrs. est. $50,000. Noted Aug. 25.

Okla., Shawnee—For 26,100 ft. 8- to 12-in. vitr. clay sewers in various streets, to H. L. Cannady & Co., 1122 South Lewis St., Tulsa, $108,416. Engrs. est. $110,000.

Calif., Glendale — Vitr. sewer, etc. in Campbell and Louise Sts., et al, to B. D. Zaich & J. Henderson, 267 Hill Dr., $78,628. Noted Aug. 18.

Calif., Los Angeles — Constructing 4th and Lorena St. bridge, to Kelly & Sons, 815 South Hill St., $206,756.

Calif., Los Angeles—Sewer in 12th St. between Queen Anne Pl. and Rinpau Blvd., to G. R. Curtis Paving Co., 2440 East 26th St., $26,208.

Waste Disposal

Proposed Work

N. J., Perth Amboy—Pub. Wks. Comn., J. V. Smith, High St., plans incinerator. $160,000. L. P. Booz, 283 Madison Ave., city engr.

N. J., Point Pleasant—Bd. Council, making plans septic tank, for waste disposal. $150,000. R. Havens, 431 Railroad Sq., city engr.

Ky., Louisville—Making plans brick and steel garbage incinerator on old workhouse site. $175,000.

Ont., St. Thomas—Plans incinerator. W. C. Miller, City Hall, engr.

Contracts Awarded

N. J., Hackensack—Hackensack Impvt. Comn., Municipal Bldg. incinerator disposal plant, incl. equipment, etc., to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $89,730. Noted Aug. 4.

Bridges

Proposed Work

Vt., South Royalton—Central Vermont R. R. Co., P. D. Fitzpatrick, ch. engr., St. Albans, made plans concrete and steel bridge, here. $100,000-$125,000.

Mass., Framingham — Plans concrete bridges, on 2nd, Irving and Herbert Sts. $25,000. S. Dyer, City Hall, engr.

Mass., Gloucester—Essex Co. (Salem), R. H. Mitchell, chn. Bridge Comn., Salem, plans concrete highway bridge, here. $25,000 or more. R. M. Evans, co. engr.

Pa., Phila—Dept. Pub. Wks., Bureau Engineering, Bridge Div., soon takes bids 1,080 ft. rein.-con. double deck bridge, 80 ft., over Wissahicken Creek, on Henry Ave. $1,500,000. Modjeski & Chase, 1420 Walnut St., engrs.

Ala., Birmingham—Making surveys 8 concrete viaducts and 1 subway. A. J. Hawkins, city engr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making plans 6 bridges on State Road 41, between Kenton and Union City, Obion Co. C. N. Bass, highway comr.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, received no bids Sept. 9, 31 ft. concrete slab bridge, on Sect. "Bluffton North" Lima-Sandusky Rd., Allen Co., $3,256, and 234 ft. steel bridge on Sect. "D" Ohio River Rd., Washington Co., $57,665. Noted Sept. 1.

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., making plans superstructure Crawford Ave. bridge, 300 ft. long, 56 ft. roadway, over Main Drainage Channel, $900,000. E. J. Kelley, 910 South Michigan Ave., Chicago, engr.

Texas—J. W. Billingsley, engr., Interstate Bldg., New Orleans, La., acting for A. C. MacFarlane, (owner) Galveston, plans 1 mi. timber and concrete bridge between Galveston Island and Port Bolivar. $2,000,000. L. G. Frost, Galveston, engr. Noted Sept. 15.

Okla., Tulsa—Making surveys 1,200 ft. steel viaduct, 60 ft. roadway, on 4th St., $500,000. C. Schultz, City Hall, engr.

Calif., Santa Rosa—Made plans 4 new rein.-con. bridges over Santa Rosa and Matanzas Creeks. To exceed $25,000. E. A. Peugh, Courthouse, engr.

Bids Desired

Maine—Sept. 26, by State Hy. Comn., Augusta, Burnell Bridge, 95 cu.yd. concrete, also Warren Bridge, 127 cu.yd. concrete, both Baldwin Co.; Toll Bridge, steel superstructure, 416,000 lb. steel, Bethel Co.; Depot Bridge, 1,557 cu.yd. concrete, Corinth Co.; Wadsworth Bridge, steel superstructure, incl. 25,000 lb. machinery, Thomaston Co.; and International Bridge over St. Croix River, 367 cu.yd. concrete. P. D. Sargent, highway comr.

Alabama—See "Streets and Roads."

Ohio—Oct. 9, by G. F. Schlesinger, dir. Hys. and Pub. Wks., 234 ft. steel span bridge over Duck Creek on Sect. "D," Ohio River Rd., Washington Co. $57,665; 24 ft. concrete slab bridge on Sect. "Bluffton North" Lima-Sandusky Rd. Allen Co. $3,256; also 103 ft. concrete arch bridge on Sect. "I" Bono-Port Clinton Rd., Ottawa Co. $13,774.

O. Dayton—Oct. 13, by Comrs. Montgomery Co., Court House, 250 ft. span steel through truss highway bridge with rein.-con. abutments, etc., over Stillwater River at Siebenthaler Ave. near here. $75,000. W. O. Pease, Court House, co. surv.

Indiana—Sept. 29, J. D. Williams, dir. State Hy. Comn., Indianapolis, two 100 ft. and one 198 ft. span bridge on Road 67-D, Greene Co.; two 65 ft. span bridge on Rd. 67-A, and 60 ft. span on Rd. 56-N, Jefferson Co.; 50 ft. bridge on U. S. Rd. 31-S, Miami Co.; three 72 ft. and two 24 ft. span bridge on Rd. 37-H, also 50 ft. span bridge on Rd. 46-F, Monroe Co.; two 84 ft. bridges on Rd. 34-E, and four 72 ft. span bridge on Rd. 43-J, Montgomery Co.; three bridges on U. S. Rd. 41-S, Newton Co.; 100 ft. bridge on Rd. 43-K, Tippecanoe Co.; and two 150 ft. span bridge on Rd. 66-B, Warrick Co. W. J. Titus, ch. engr.

Kan., Pratt—See "Streets and Roads."

Neb., Hershey—Oct. 10, by T. Lowe, clk., Lincoln Co. (North Platte), nine 75 ft. pony truss or fourteen 50 ft. transverse joist girder span bridge, incl. approach fills, willow mattress and incidental work over Platte River, near here. R. L. Cochran, Lincoln, state engr.

Wyoming—See "Streets and Roads."

Ark., Dardanelle—Sept. 29, by State Hy. Comn., Little Rock, steel and rein.-con. bridge over Arkansas River, on Federal Aid Project 244-A, here, Pope and Yell Counties. Noted Sept. 15.

Washington—Oct. 4, by State Hy. Comn., Olympia, one 180 ft. span bridge with three 30 ft. rein.-con. approach spans, 20 ft. roadway, etc., over Teanaway River between Cle Elum and Virdens, Kittitas Co. S. J. Humes, state highway engr.

Wash., Seattle—Oct. 11, by State Hy. Comn., Olympia, 48 ft. concrete bridge over Dwamish River, on State Rd. 1, near here, King Co. S. J. Humes, highway engr. Noted Nov. 25.

Bids Received

New York—A. W. Brandt, comr. Highways, Albany, Sept. 9 **(e.e. means eng. est.)**, reconstructing bridges on Repair Contr. 1650, Highway 811, Georgetown-Otselic Rd., and 1326, DeRuyter Village, Madison Co., from J. J. Lyon, 310 Elm St., Fayetteville, $31,790 e.e. $42,419 on Repair Contr. 1654, Highway 8231, Palenville-Catskill Rd., Greene Co., from I. V. A. Huio, White Plains, $35,028 e.e. $40,342 on Highway 5348, Canisteo Jasper Rd., and on Highway 5349, Painted Post-Addison Rd., Part 3, Steuben Co., from A. L. Blades, 134 Main St., Hornell, $90,865 e.e. $125,086, on Repair Contr. 1651, Highway 5121, North Norwich-Sherburne Rd., Chenango Co., from F. Lewis & Sons, South Main St., Afton, $89,877 e.e. $114,824, on Repair Contr. 1649, Highway 335, Victor-Mendon Rd., Ontario Co., from J. Petrossi & Co., 6 State St., Rochester, $29,182 e.e. $39,071, and on Repair Contr. 1656, Highway 1180, St. Lawrence Co., Line-St. Regis Falls Rd., Franklin Co., from Wilbur-Barton Constr. Co., Mechanicsville, $16,923 e.e. $20,809 also painting, etc. 11 bridges on Repair Contr. 1655, Albany, Saratoga, Schenectady and Washington Counties, from N. A. Vassilaros, Inc., 15 Park Row, New York City, $35,100 e.e. $58,700. Noted Aug. 25.

N. J., New Providence—Bd. Freeholders Union Co. (Elizabeth) and Morris Co. (Norristown), Sept. 13, rein.-con. bridge, here, from H. R. Terrell, 842 Wood Ave., Linden, $27,775. Noted July 21.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, Sept. 9, 115 ft. steel bridge, on Sect. "E" West Union-Hillsboro Rd., Adams Co., from L. H. Nixon, Columbus, $23,913; two 24 ft. span concrete bridge, on Sect. "E" Dayton-Lakeview Rd., Champaign Co., from L. G. Garrison, Clayton, Mich., $5,032; and 4 bridges on Sect. "Rogers East" Lisbon-East Palestine Rd., Columbiana Co., from Allison-Harris Co., East Liverpool, $38,083; widening 2 bridges on Sect. "F" Urbana-Marysville Rd., Champaign Co., from T. Crew & Smith, London, $5,694; 0.62 mi. concrete arch bridge, on Sect. "S" Cleveland-East Liverpool Rd., Columbiana Co., from H. C. Armstrong, Lisbon, $33,671; 0.020 mi. concrete beam bridge, on Sect. "Salineville" Wellsville-Salineville Rd., Columbiana Co., from R. Moore, Ostrander, $18,800; widening steel beam bridge, on Sect. "A" Carthage-Hamilton Rd., Hamilton Co., from R. R. Hughs, Hamilton, $2,833; and 92.5 ft. concrete girder bridge, on Sect. "M-2" Zanesville-Caldwell Rd., Muskingum Co., from Adams Bros., Zanesville, $9,819; also new concrete abutments for old steel girder bridge on Sect. "C" Hayesville-Nashville Rd., Ashland Co., from Tinsley & Moore, Ashland, $8,083. Noted Sept. 1.

O., Cincinnati—C. O. Sherrill, city mgr., City Hall, two 75 ft. span concrete and steel bridge over West Fork Creek, from Gradison Constr. Co., 701 1st Natl. Bank, for City, $29,020. Engrs. est. $35,000. Noted Aug. 25.

Calif., Los Angeles—Bridge over Los Angeles River at Sepulceda Blvd., from Lynch-Cannon Eng. Co., Chapman Bldg., $27,215.

Calif., Visalia—Tulare Co., Bridge 80, rein.-con over St. John River, from L. C. Clark, Visalia, $29,885.

Contracts Awarded

Maine—State Hy. Comn., Augusta, constructing Oxford Tool Bridge, in Bethel, to Kennebec Constr. Corp., Gardner, $24,336; Sunday River Bridge, Bethel, to U. Mececier, Rumford, $26,241; Gully Bridge, Orland, to M. J. Rogers, Bangor, $16,865; Lower River Bridge, Phillips, to J. H. Kerr, Rumford, $32,474; and Cain Bridge, Clinton, to Fidelity Constr. Corp., South Portland, $10,104. Grand total $110,020. Noted July 28.

Rhode Island—Bd. Pub Rds., Providence, railroad bridges in Summit, Contr. 38-B, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $20,251; bridge in Hopkinton, Contr. 229, to O. Waterman, Providence, $4,176; also bridges in Hopkinton, Contrs. 230 and 231, to Cencarelli & Co., Westerly, $4,886. Grand total $29,313.

Constr. News page 145

Bridges (Continued)

New York—T. F. Farrell, comr. Canals & Waterways, State Pub. Wks. Bldg., Albany, removing existing bridges and constructing new highway crossings on Erie Canal, Madison and Oneida Counties, Erie Canal Contr. M-33, to H. J. Lyon, Fayetteville, $31,387. Noted Sept. 8.

New York—A. W. Brandt, comr. Highways **(e.e. means engineers estimate)**, reconstructing bridges on Repair Contr. 1650, Highway 811, Georgetown-Otselic Rd. and 1326, DeRuyer Village Rd., Madison Co., to H. J. Lyon, 310 Elm St., Fayetteville, $31,790 e.e. $42,419; on Repair Contr. 1654, Highway 8231, Palenville-Catskill Rd., Greene Co., to I. V. A. Huio, White Plains, $35,028 e.e. $40,342; on Repair Contr. 1653, Highway 5253, Jasper-Addison Rd., and Repair Contr. 1652, Canisteo-Jasper Rd., and Highway 5349, Painted Post-Addison Rd., Part 3, Steuben Co., to A. L. Blades, 134 Main St., Hornell, $90,865 e.e. $125,086; on Repair Contr. 1651, Highway 5121, North Norwich-Sherburne Rd., Chenango Co., to F. Lewis & Sons, Afton, $89,877 e.e. $114,824; on Repair Contr 1649, Highway 335, Victor-Mendon Rd., Ontario Co., to J. Petrossi & Co., 6 State St., Rochester, $29,182 e.e. $39,071; and on Repair Contr. 1656, Highway 1180, St. Lawrence Co. Line-St. Regis Falls Rd., Franklin Co., to Wilbur-Barton Co., Mechanicsville, $16,923 e.e. $20,809; also painting 11 steel bridges in Albany, Saratoga, Schenectady and Washington Counties, to N. A. Vassilaros, Inc., 15 Park Row, New York City, $35,100 e.e. $58,700. Grand total $328,865. Noted Aug. 25 under "Streets and Roads."

Maryland—State Roads Comn., Baltimore, to Luten Bridge Co., H. S. Ebert Bldg., York, rein.-con. arch bridge over Morgan Run, Contr. CI-71, Carroll Co., $23,960; rein.-con. arch bridge over Little Antietam Creek, Contr. W-50, Washington Co., $14,048; to S. T. Brotemarkle, Cumberland, rein.-con. bridges over Georges Creek, Contr. A-50 $16,914, Contr. A-49 $15,886, and Contr. A-51 $16,710, all foregoing in Allegany Co. Grand total $87,518. Noted Sept. 1.

Ga., McRae—Telfair Co., constructing 21 bridges to Coffee Constr Co., Eastman, $64,730. Engrs. est. $70,000.

Ky., Paducah—Paducah-Ohio Bridge Co., R. Rud:, pres., 230 Bway., substructure for 1,520 ft. cantilever bridge, 20 ft. roadway, over Ohio River, to Union Bridge & Constr. Co., 903 Sharp Bldg., Kansas City, Mo., $436,000; superstructure, to Wisconsin Bridge Co., North Milwaukee, Wis., $800,000, and approaches, to Rouse Constr. Co., Cape Girardeau, Mo., $49,000. Grand total $1,285,000. Noted Sept. 8.

Wis., Milwaukee—Constructing East Locust Street Bridge, concrete abutments, to Parkinson Constr. Co., 322-27th St., $9,176; and structural steel, to Lakeside Bridge & Steel Co., North Milwaukee, $17,749.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., constructing Indiana limestone substructure for 250 ft. steel bascule span bridge, 60 ft. with 12 ft. sidewalks, etc. on Cedar St., to E. E. Gillen, 288 East Water St. $507,538; also furnishing and delivering all structural steel, machinery, castings, forgings, etc. for superstructure for above, to Milwaukee Bridge Co., 1400-34th St. $148,795. This corrects report in Sept. 8 issue.

Iowa — State Hy. Comn., Ames, **(F.A.P. means Federal Aid Project, B.P. Bridge Project, and P.R. Primary Road)**, to Jenson Constr. Co., Kimbalton, one 40 x 20 ft. skew I beam, one 50 x 20 ft., pony truss and one 130 x 20 ft. high truss with two 32 ft. I-beam approach span bridges, on U. S. Highway 65, F.A.P. 300, Decatur Co. $39,365, to Federal Bridge Co., 1002 B. T. Bldg., Des Moines, one 36 x 24 ft. I-beam bridge in Toledo, B.P. 25, Tama Co., $4,500, to Iowa Bridge Co., 1901 Easton Blvd., Des Moines, one 70 x 20 ft. pony truss bridge at Ainsworth, B.P. 86, Washington Co., $10,950, and 1 culvert at Altoona, F.A.P. 206, Polk Co., $1,567; to C. A. Holvik, Mason City, three 32 x 24 ft. deck girder span bridge on Clear Lake Rd., B.P. 275, Cerro Gordo Co., $10,887; to Humphrey & Son, 3 span 32 x 20 ft. I-beam bridge near Turin, B.P. 38, Monona Co., $7,290; to F. O. Akin, Corning, one 32 x 24 ft. I-beam bridge and 28 culverts on B.P. 502, Adams Co. $22,000, and 5 culverts on Lennox Rd., P.B.P. 362, Taylor Co., $1,677; to Stillman & Stoops, Ames, three 40 x 24 I-beam bridges near Hampton on P. B. 538, Franklin Co., $13,989; to Snyder & Johnson, Humboldt, bridges and culverts on items 1 to 6 (inclusive) F.A.P. 26, Woodbury Co., $1,225, and items 5, 12, 60 and 62, $56,752, also 6 culverts near Centerville, B.P. 535, Appanoose Co. $3,142; to B. Cole, Ames, bridges and culverts on Item 6. F.A.P. 2, Woodbury Co. $51,200, to Lynch & Co., Castena, Items 20 to 65 except 60 and 62 on same road $24,700, and to McCallan & Dorn, South Sioux City, Neb., Items 4 to 19 except 5 and 12, $7,000; to E. N. Jordon, Centerville, 39 culverts on Centerville Rd., B.P. 479, Appanoose Co. $33,296; to Wilson Constr. Co., Red Oak, 59 culverts on F.A.P. 300, Decatur Co. $46,150; to Chariton Constr. Co., Chariton, 3 culverts in Chariton, B.P. 405, Lucas Co. $1,773; to H. E. Whitlatch, 31 culverts near Oskaloosa, B.P. 511, Mahaska Co. $23,060; to G. J. Chadek, Iowa City, 9 culverts on B.P. 86, Washington Co., $3,144; to H. E. Rhodes, Guthrie Center, 32 culverts on Greenfield Rd., P.B.P. 72, Adair Co., $17,549, to E. A. Kramme, Des Moines, 10 culverts on Murray Rd., B.P. 506, Clarke Co., $4,544; to W. E. Shoppe, Jefferson, 5 culverts on Missouri Valley Rd., F.A.P. 14, Harrison Co., $2,675; to Klauer Mfg. Co., Dubuque, 336 ft. 15 and 24 in. corrugated culvert pipe on P.R. 3, P. 475, Appanoose Co., $426; to Iowa Pure Iron Co., East 8th and Elm Sts. Des Moines, 1,000 ft. 15 and 18 in. corrugated culvert pipe on P.R.P. 3, F.A.P. 300, Decatur Co., $1,160, and 300 ft. 15 and 18 in. on U. S. Highway 34, P. 529, Lucas Co., $634; to Northfield Iron Co., Northfield, Minn., corrugated culvert pipe at New Sharon, P. 511, Mahaska Co. $1,408, and 240 ft. 15- to 24-in. on F.A.P. 167, Washington Co. $304; to Conner & Lee, Hampton, 224 anchors and 61,810 ft. guard rail on Postville-Lansing-Waukon Rd., P. 29, Allamakee Co., $25,123; to G. Cronkhite, Perry, 40 anchors, 3,150 ft. guard rail, etc. on Lime Springs Rd., F.A.P. 190, Howard Co., $1,219, 42 anchors, 4,670 ft. guard rail on U. S. Highway 218, P. 158-D, Mitchell Co. $1,568, also 104 anchors and 22,640 ft. guard rail on Graettinger Rd., P. 461, Palo Alto Co. $33,712; to P. Berg, Reinbeck, and Bryant Paving Co., Waterloo, 2,250 ft. 8 and 10 in. sewer pipe, 5 intakes, etc. on U. S. Highway 218, F.A.P. 283, Bremer Co., $1,533. Grand total $427,611. Noted Aug. 11 and 25.

Minn., Morton—State Hy. Comn., St. Paul, Bridge 4666, 3 span 290 ft. long, concrete, on State Project 14-24, Sect. 4, to Minneapolis Bridge Co., 924 Metropolitan Life Bldg., Minneapolis $45,500; and Overhead Structure 4668, 680 cu.yd. concrete, on same road, from Morris Constr. Co., Morris, $14,748. Noted Aug. 25.

Kan., Eldorado—See "Streets and Roads."

Neb., Duncan—C. H. Hoge, clk., Platte Co. (Columbus), Polk Co. (Osceola), and State Hy. Comn., at Columbus, fills, mattress, etc. for Duncan State Aid Bridge over Platte River, near here, to T. Gass, Kearney, $7,638; and eighteen 50 ft. transverse joist girder spans, etc. for above, to Allied Contractors, Inc., Nebraska Natl. Bank Bldg., Omaha, $60,000. Noted Aug. 25.

Neb., Ewing—E. F. Porter, clk. Holt Co., Court House, O'Neill, 100 ft. pony truss span and two 50 ft. pony truss approach span bridge 20 ft. roadway, etc. over Elkhorn River, near here, to Western Bridge & Constr. Co., 748 Peters Trust Bldg., Omaha, for Holt Co. and State Dept. Pub. Wks., Lincoln. Approximately $22,500. Noted Aug. 25.

North Dakota—See "Streets and Roads."

Wyoming—State Hy. Comn., Cheyenne, bridge over Laramie River, State Project 6-1, Albany Co., to N. A. Swensen, Laramie, $32,756.

Texas—State Hy. Dept., Austin, rein.-con. and steel bridges on Highway 81, Federal Aid Project 440, E. Unit 2, De Witt Co., to Walsh, Burney & Moore, 928 North Flores St., San Antonio, $77,235. Engrs. est. $85,000.

Tex., Houston—City, c/o O. F. Holcombe, mayor, 3 span 400 ft. concrete and steel bridge across Houston Ship Channel, on Adams St., to Standard Constr. Co., Esperson Bldg., $285,800. Engrs. est. $200,000. Noted Aug. 18.

Okla., McAlester—F. Fraser, engr. Pittsburg Co., steel trusses for bridge over Coal Creek, to Illinois Bridge Co., Jacksonville, Ill., $26,450. Engrs. est. $30,000.

Idaho — State Hy. Comn., Boise, constructing Emmett Bridge, three 120 ft. steel spans, etc., over Payette River, to Portland Bridge Co., Yeon Bldg., Portland, Ore., $41,886. Engrs. est. $40,976.

Calif., Galivan (mail El Toro)—State Hy. Comn., Sacramento, one 30 ft., two 40 ft. and two 50 ft. span rein.-con. bridge over Atchison, Topeka & Santa Fe Ry. tracks, Orange Co., near here, to Hewitt-Mille-Shirley, Inc., Los Angeles, $28,977. Engrs. est. $29,995. Noted July 28.

Constr. News page 146

Dams

Bids Desired

Manitoba—Oct. 4, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., control dam and dyke in connection with auxiliary channel for Roseau River, Provencher Co., here. $50,000.

Contracts Awarded

Wash., Seattle—Bd. Pub. Wks., County—City Bldg., constructing Diablo Dam, concrete arch type, on Skagit River, Whatcom Co., to Winston Bros., 801 Ry. Exch. Bldg., Minneapolis, Minn., $2,546,388. Noted Sept. 15.

Railways

Proposed Work

Texas—Houston & Port Arthur Ry., W. H. Doherty, pres., 308 Keystone Bldg., Houston, made plans and takes bids about Jan. 1, 85 mi. railroad from Houston to Port Arthur, incl., 8 bridges, and approximately 10 stations. $4,000,000. W. O. Worth, Keystone Bldg., Houston, engr.

Bids Desired

California—Sept. 28, by Bd. Pub. Wks., San Francisco, special work for Judah st. line of municipal railway system, in San Francisco, for City and San Francisco Co. $275,000. M. M. O'Shaughnessy, city engr.

Ontario—See "Contracts Awarded."

Contracts Awarded

Ontario—Toronto Transportation Comn., Yonge and Front Sts., Toronto, D. W. Harvey, engr., will change gauge approximately 35 mi. single track radial line between Toronto and Sutton, by day labor. $150,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mass., Boston—New York, New Haven & Hartford R. R., E. Gagel, ch. engr., New Haven, Conn., plans crib wall and solid fill Neponset River, near Granite Ave., here. $25,000.

Ia., Council Bluffs—Making preliminary plans rein.-con. channel 16 ft. wide and 10 ft. deep, for Indian Creek between Oak and Frank Sts., approximately 2,325 cu.yd. concrete, etc. $78,575. B. Walker, City Hall, engr.

Tex., San Benito—Voted $150,000 bonds, draining Lake Agua Negra. Address Mayor.

Calif., Grass Valley—Nevada Irrigation Dist., making plans main canal from Scotts Flat to Wolf Creek, Nevada Co., and main canal and laterals in Placer Co. $2,200,000. F. H. Tibbetts, Alaska Cimmercial Bldg., San Francisco, engr.

Calif., Newport Beach — Plans 750 ft. breakwater at shore end of West Jetty, 100 ft. from beach, etc., P. Kressley, 732 H. W. Hellman Bldg., Los Angeles, engr.

Bids Desired

Ark., Dardenelle — See "Contracts Awarded."

Que., Chicoutimi—Sept. 28, by Harbor Comrs., A. Vian, secy., constructing and filling new wharf wall and piers over Saguenay River. $545,000. A. D. Suan, 1188 Philips Pl., Montreal, engr.

Bids Received

N. Y., Howard Beach (br. Jamaica)—M. Cosgrove, comr. Docks, Pier "A", Battery Pl., North River, New York City, Sept. 15, dredging channel at Howard Beach, Jamaica Bay, here, Contr. 1899, from W. H. Gahagan Realty Corp., Beach 2nd St., Brooklyn, $11,400. Noted Sept. 8.

Tex., Port Arthur—For 14,000 yds. oyster shell for revetment work, from L. A. Lindstrom, Port Arthur, at $2.12 per yd. and $0.87 placing.

Wash., Port Orchard—Kitsap Co., Sept. 4, dredging 72,000 cu.yd. in Port Orchard Bay, from Puget Sound Bridge & Dredging Co., Central Bldg., Seattle at $0.44 per cu. yd.

Contracts Awarded

La., Covington—St. Tammany D. D. 2, G. Steele, pres., drainage canals, levees and

Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

central pumping station, etc., to McWilliams Co., Contractors Exch. Bldg., Memphis, Tenn., approximately $340,000.

La., New Orleans—Orleans Levee Bd., New Court House, filling 230,000 cu.yd. Caernarvon Levee, to Orleans Dredging Co., Maison Blanche Bldg., $90,781.

La., New Orleans—Dock Bd., 500 Camp St two 500 ft. additions to flat deck wharf, here to Hampton Reynolds, Maison Blanche Bldg., $164,013.

O., Cleveland—Cleveland Union Terminal Co., Ulmer Bldg., 600 ft. retaining wall, 30 ft. high, 2½ ft. wide, on Canal Rd., to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg.

Ia., Storm Lake—W. T. Kaufman, aud. Buena Vista Co., drainage work in Dist. 152, 15,392 ft. 10- to 34-in. pipe, 7 intakes, etc., to D. Christensen, Rockwell, $5,368; and tile, to Lake View Concrete Tile Co., Lake View, $12,748.

Ark., Dardenelle—Carden Bottoms Levee Dist., c/o D. C. Love, pres., will rebuild Carden Bottom Levee, by day labor. $60,000. E. Hale, Nat'l Bank Bldg., Pine Bluff, engr. Noted Sept. 15.

Ont., Wiarton—Bruce Co. excavating approximately 15,000 cu.yd. rock north of here, to R. C. Huffman Constr. Co., 311 Bay St., Toronto. Engrs. est. $30,000.

Streets and Roads

Proposed Work

Mass., Boston—Dept. Pub. Wks., plans constructing Glendale St. and Wilber Rd. as highway in Dorchester, $25,000; laying out and constructing Parkville Rd. and Auburn St. as highway in West Roxbury, $25,000; also reconstructing Adam St. as highway in Brighton, to exceed $25,000. J. H. Sullivan, comr.

New York—A. W. Brandt, comr, Highways, Albany, rejected bids Sept. 9, constructing 6.29 mi. Highway 1760, Hopewell Junction-Millbrook Rd., Part 3, Dutchess Co. Noted Aug. 25.

N. J., Bradley Beach—Plans asphalt paving 1.5 mi. Ocean Park, LaReine and Brinley Aves. $132,000. F. C. Borden, mayor.

W. Va., New Martinsville—Clay Dist. voted $80,000 bonds, Magnolia Dist. voted $150,000 bonds, and Proctor Dist. voted $144,000 bonds, paving roads in Wetzel Co. W. H. Ramp, New Martinsville, co. engr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 12 mi. Jackson-Chester Co. Line Rd., Madison Co., and 12 mi. Louden-Sweetwater Rd., Louden Co. C. N. Bass, highway comr.

Tennessee—Dept. Highways & Pub. Wks., Nashville, made surveys improving 12 mi. Waverly-Tennessee River Rd., State Rd. 1, Humphreys Co. C. N. Bass, Nashville, comr.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, received no bids Sept. 9, grading and paving, etc., 0.472 mi. Sect. "Warwas" Mt. Vernon-Coshocton Rd., 1.456 mi. Sect. "A-1" Coshocton Rd., both in Coshocton Co., 0.416 mi. Sect. "Mingo Junction North" Ohio River Rd., and 0.813 mi. Sect. "Q" Ohio River Rd.; also retaining wall in Sect. "Q" Ohio River Rd., all foregoing in Jefferson Co.; also cancelled bids to have been opened Sept. 9 grading and paving 0.43 mi. Sect. "Warsaw" Mt. Vernon-Coshocton Rd., Coshocton. Noted Sept. 1.

Mich., Dearborn—Ford Motor Co. making plans one course 7 in. concrete paving approximately 11,500 sq. yd. industrial drives around shops and hangars, Ford Airport. $25,000. Work will probably be done by force account. Private plans.

Mich., Detroit—Making estimates concrete or stone curbing, 3½ in. sheet asphalt on 8 in. concrete and one course 8 in. concrete paving Marlborough Ave. and seven streets. $142,250. P. A. Fellows, city engr.

Mich., Grosse Pointe Park (mail Grosse Pointe)—Made plans concrete curbing, and 3½ in. sheet asphalt on concrete paving 5,600 sq.yd. Balfour Rd. and Jefferson Ave. $25,000. C. H. Marden, 502 Garrick Theatre Bldg., Detroit, engr.

Mich., Mt. Clemens—Macomb Co. made plans one course concrete paving 6 mi. Wolf Rd., 20 ft. $325,000. W. Lehner, Ulrich Bank Bldg., engr.

Ill., Chicago—Cook Co. Hy. Dept., 139 North Clark St., soon takes bids improving 24.7 mi. Irving Park Blvd., Dempster and Oakton Sts., Western, Grand, Lawrence, Belmont, Archer and Harlem Aves. G. A. Quinlan, 139 North Clark St., co. engr.

Kan., Dodge City—Ford Co. plans concrete surfacing, etc. 1.011 mi. Project 64-B, 18 ft. J. W. Thornburgh, Dodge City, engr.

Kan., Lakin—Kearney Co. making plans grading, etc. 6.071 mi. Federal Aid Project 338-A, 28 ft. R. F. Darnell, Lakin, engr.

Mo., Joplin—Soon takes bids squeegee on concrete paving 3 blocks 5th St. and 1 block Murphy Ave.; also asphaltic concrete paving 11 blocks Connor Ave. and 3 blocks Jackson Ave. S. P. Ashcraft, Jr., City Hall, engr.

Mo., Neosho—Soon takes bids concrete paving, etc. 13,050 sq.yd. High, Coler and Wood Sts.; also curbing, guttering, etc. 1,450 ft. Washington St. Black & Veatch, Mutual Life Bldg., Kansas City, engrs.

Mo., St. Joseph—Making preliminary plans wire-cut brick repaving Messanie St. between 16th and 22nd Sts. $16,500, Messanie St. between 22nd and 26th Sts. $14,000; concrete paving, etc., alley between Lafayette and Seneca Sts., Noyes Blvd. to 32nd St., $2,300; also 6 in. concrete paving, etc., Yale St. between Lookout and 1st Sts. $3,700, and Franklyn Alley west of Prospect St. to Prospect St. $740. W. M. Spann, City Hall, engr.

Texas—State Hy. Dept., Austin, rejected bids, bituminous surfacing approximately 383,500 sq.yd. Highway 1, Jeff Davis and Reeves Counties. Will probably readvertise soon for same. R. A. Thompson, Austin, state highway engr.

Tex., Carizzo Springs—Dimmit Co. making plans grading and bridging 9.549 mi. State Aid Project 718-B, on Highway 55, 26 ft. $50,360. J. G. Lott, Carizzo Springs, engr.

Tex., Cold Spring—San Jacinto Co. making plans grading and bridging 7.598 mi. Highway 35, Federal Aid Project 426-C, Unit 1. $45,000. Address W. McMurray, Cold Springs, co. judge.

Tex., Edna—Jackson Co. voted $175,000 bonds, hard paving approximately 11 mi. Highway 12. Address J. T. Vance, Edna, co. judge. Noted April 5.

Tex., Falls City—Voted $40,000 bonds paving approximately 22 blocks various streets. Address Mayor.

Tex., Hearne—Voted $80,000 bonds, paving various streets. H. E. Elrod, 209 Mercantile Bank Bldg., Dallas, consult. engr.

Tex., Huntsville — Walker Co. making plans grading and bridging 12½ mi. Highway 19 from Huntsville north to Riverside. $90,000. D. K. Caldwell, Huntsville, co. engr.

Tex., Laredo—Voted $165,000 bonds, paving various streets. Address Mayor. Noted Aug. 18.

Tex., Ranger—Soon takes bids paving 45 blocks various streets. F. J. Von Zuben, 611 Dan Waggoner Bldg., Ft. Worth, engr.

Tex., Panhandle—Carson Co. making plans grading and bridging, 10.057 mi. State Highway 75 from Gray Co. line to Federal Aid Project 517-B, 26 ft. $27,800. L. O. Cox, Panhandle, engr.

Tex., Panhandle — Carson Co. making plans grading and bridging 8.85 mi. Federal Ai Project 517-B, Unit 1, $27,745. L. O. Cox, Panhandle, engr.

Oklahoma—State Hy. Dept., Oklahoma City, making surveys grading, etc., 9 mi. Dustin-Wetumka Rd., 30 ft. Hughes Co. $30,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Oklahoma—State Hy. Comn., Oklahoma City, made plans grading, 7 in. concrete paving, etc. 10,560 sq. yd. Highway 27, Okmulgee Co. $27,500. C. R. Mandigo, Oklahoma City, engr.

Okla., Carnegie — Making preliminary plans grading and paving 15 blocks streets in residential district, 30 ft. $69,000. Engineer not selected.

Okla., Chickasha—Making plans grading, curbing and sheet asphalt paving 7,450 sq.yd. 6th St. $33,407. R. O. Bradley, Chickasha, engr.

Okla., Duncan—Plans grading, curbing and 6 in. concrete paving 26,670 sq.yd. various streets. $82,100. H. J. Wilkins, Duncan, engr.

Okla., Enid—Plans grading and 7 in. concrete paving 9,400 sq.yd. streets in residential district, $28,000; and 6 in. rein.-con. paving, etc., 9,850 sq.yd. South Market St., $33,000. F. C. Magruder, Enid, engr. Noted Sept. 1.

Okla., Garber—Making preliminary plans paving 10 blocks various streets. $40,000. R. Ayers, mayor. Engineer not selected.

Okla., Okemah — Making preliminary plans grading and 6 in. concrete paving 8,400 sq.yd. West Bway. $25,000. A. C. McCord, Okemah, engr.

Okla Oklahoma City—Plans sheet asphalt paving, etc. 9,060 sq.yd. Walker St. and Avenue F, $36,215; also sheet asphalt paving 1,800 sq.yd. and 7 in. concrete paving, etc. 7,100 sq.yd. Park Pl., 41st, 30th and 39th Sts., $46,747. B. M. Hart, City Hall, engr.

Okla., Oklahoma City — Making plans grading, curbing, and sheet asphaltg paving 5,200 sq.yd. Laird Ave. $25,000. B. M. Hart, City Hall, engr.

Okla., Prague—Voted $25,000 bonds, grading, concrete paving, etc. 8,700 sq.yd. 11th St. and Bway. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Tulsa—Plans grading, curbing and sheet asphalt paving 7,235 sq.yd. Virgin and Independence Sts., $28,000; 6,330 sq.yd. Waco Ave., $27,000; and 7,400 sq.yd. 14th St., $28,000. C. Schultz, City Hall, engr.

Okla., Wakita—Making plans grading, curbing and 6 in. concrete paving, etc. 9,875 sq.yd. Main St. $31,420. E. A. Jones, Enid, engr.

Okla., Waynoka—Making plans grading, paving, etc., 20 blocks streets in business section, 30 to 66 ft. $75,000. E. A. Jones, Enid, engr.

Calif., Los Angeles—E. C. Upp, city clk., plans widening and paving Santa Barbara Ave. between Alameda St. and 3rd Ave., $3,145,000, city appropriated $625,000 towards cost and balance to be paid by property owners; also grading, curbing, guttering and Durite on asphaltic concrete paving, etc. Boulder Pl. and Hillcrest Ave., etc., to exceed $25,000.

Calif., San Diego—Plans grading, curbing, walks and 8 in. concrete paving, etc. 438,717 sq. ft. 51st St., El Cajon and Winona Aves.; grading, curbing, walks and 6 in. asphaltic concrete paving, etc., 355,413 sq. ft. Chatsworth Blvd., Tennyson St., et al, and 113,025 sq.ft. Howard Ave., etc. F. M. Lockwood, city engr.

Ont., Kitchener—Plans concrete curbing, guttering and asphalt on concrete paving, etc., 5,000 sq. yd. various streets, $28,000. S. Shupe, City Hall, engr.

Ont., Toronto—East York Twp. soon takes bids concrete curbing, guttering and bituminous concrete or asphalt on 8 in. concrete paving 5,100 ft. Pope Ave. $100,000. G. R. Jack, 443 Sammon Ave., engr.

Bids Desired

Maine—Sept. 26, by State Hy. Comn., Augusta (**F.A.P. means Federal Aid Project and S.P. means State Project**), grading, and gravel surfacing, etc., 2.48 mi. F.A.P. 92-C, Connor Co., 4.61 mi. F.A.P. 105-B, in Embdon-Solon, 1.67 mi. F.A.P. 107-A, Island Falls, 1 mi. F.A.P. 108-A, Madawaska and 3 mi. S.P. A-R-7, East Millinocket. P. D. Sargent, Augusta, State Hy. Engr.

New Hampshire—Sept. 23, by State Hy. Dept., Concord, 6 in. rein.-con. on 8 in. gravel surfacing, 13,291 sq.yd. Daniel Webster Highway in Hillsboro Co., 18 ft. $60,000. W. N. Prescott, Concord, engr.

New York—Oct. 7, by A. W. Brandt, comr. Highways, Albany, grading, bridging, paving, etc. roads in Albany, Dutchess, Suffolk, Westchester, and Wyoming Counties; also reconstructing highways in Allegany, Broome, Cattaraugus, Franklin, Fulton, Hamilton, Oneida, Orleans, St. Lawrence, and Westchester Counties., adv. E.N.-R. Sept. 22.

New York—Oct. 5, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading and paving 2.5 mi. Hutchinson River Parkway in White Plains and Harrison. J. Downer, Bronxville, ch. engr. adv. E. N.-R., Sept. 22.

N. Y., Brooklyn — Sept. 28, by J. J. Byrne, pres. Brooklyn Boro, grading, curbing, etc. Avenue N, Pennsylvania Ave., East 29th and 50th Sts.; grading and sheet asphalt on existing paving Gerritsen Ave., and bituminous macadam paving Gerritsen Ave.

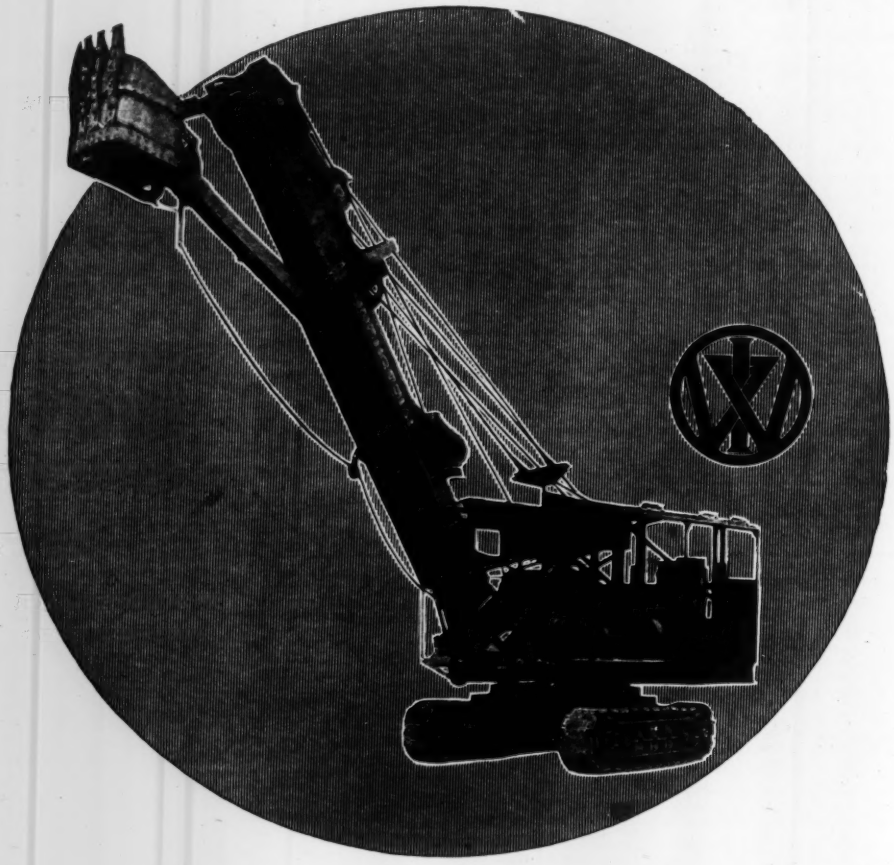
N. Y., Greece—Sept. 23, at office W. C. Deming, town clk., Memorial Hall, Ridge Rd., sidewalks on Stonewood Ave. and Conrad Dr., in Stonewood-Conrad Sidewalk Dist., and Dewey Ave., Florence, Eglantine, Bartholf, Oakwood Rds. in Oakwood Sidewalk Dist.; also paving Holley and Porter Ave., Castleton and Cleverdale Rds. H. A. Herrick, engr.

N. Y., Irondequoit (mail Rochester)—Sept. 26, by Town Bd., Ridge and Culver Rds., grading, sidewalks and bituminous penetration paving Seymour Rd. Hevenor & Weller, Inc., 5 St. Paul St., Rochester, engrs.

N. Y., New York—Sept. 27, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing, and granite block on concrete paving Broadway Terrace and Fairview Ave.

N. Y., New York—Sept. 28, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, etc. West 232nd and East 237th Sts., Fish, Colden

Constr. News page 147



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St. Louis, Mo. Railway Exchange Bldg.

Streets and Roads (Continued)

and Mayflower Aves.; grading and sheet asphalt on concrete paving Morrison, Ward, Tryon, Popham and Manor Aves.; also grading, curbing, guttering, sidewalks and bituminous concrete on concrete paving, Strong, Folin, 182nd, and East 233rd Sts.

N. Y., New York—Sept. 30, by A. Goldman, comr. Dept Plant & Structures, Municipal Bldg., reconstructing curbing and footwalk on westerly side Riverside Dr. viaduct, Manhattan Boro.

N. Y., Syracuse—Sept. 26, by Bd. Contr. & Supply, asphaltic concrete on 8 in. concrete widening 3,500 sq.yd. Butternut, Tracy and Franklin Sts.; grading, curbing and sheet asphalt on 7 in. concrete paving 6,690 sq.yd. Blossom Rd. East Ave. and Hickory St.; also sheet asphalt on 7 in. concrete paving, etc., 6,520 sq.yd. Lafayette Ave. N. F. Pitts, Jr., City Hall, engr.

New Jersey—Oct. 3, by State Hy. Comn., Trenton, grading and rein.-con. paving 3,722 sq.yd. Route 17-North, Sect. 4, in Hohokus, Bergen Co. A. L. Grover, ch. clk., adv. E. N.-R. Sept. 3.

N. J., Bradley Beach—Sept. 27, by Boro Comrs., grading, curbing, guttering sewers and concrete paving 2,370 sq.yd. Ocean Park Ave.

N. J., Newton—Sept. 29, by Town Com., grading, curbing, guttering, sidewalks and concrete paving 13,318 sq.yd. Union Pl., Linwood Annex, Liberty, Church, Main, Halsted, Madison, Washington, Jefferson, Adams, Hamilton, Moran Sts., W. J. Hardin, town engr., adv. E.N.-R. Sept. 22.

N. J., Woodbury—Sept. 27, by Bd. Freeholders, Gloucester Co., grading and rein.-con. paving 18,684 sq.yd. Hessian Ave. W. C. Chattell, co. engr., adv. E.N.-R. Sept. 22.

Pa., Phila.—Sept. 29, by Dept. Pub. Wks., Bureau Highways, asphalt repaving; redressed granite block repaving; portland cement concrete repaving; paving and repaving certain alleys. G. H. Biles, dir.

Maryland — Sept. 27, by State Roads Comn., Baltimore, concrete paving 1 mi. Contr. F-85, Frederick Co., $27,000; 1 mi. Contr. M-93, Montgomery Co., and 1 mi. Contr. C-59, Cecil Co., J. N. Mackall, chn.

Md., Baltimore—Sept. 28, by Bd. Awards, concrete paving 18,130 sq.yd. streets listed Contr. 437; grading 27,000 cu.yd. Contr. 436. N. L. Smith, City Hall, acting highway engr.

W. Va., Clarksburg—Sept. 30 by Harrison Co. Court stone base or concrete surfacing 1 mi. road in Clark Dist., and 1.5 mi. road in Clay Dist.; grading and concrete or bituminous macadam surfacing 1 mi. road in Coal Dist.; grading, etc. 10.5 mi. road in Sardis Dist., and 1 mi. road in Simpson Dist.; grading and cindering 0.5 mi. road in Eagle Dist.; stone base surfacing 2 mi. road in Grant Dist., 1.5 mi. road in Sardis Dist., and 1 mi. in Simpson Dist.; rock asphalt or mixed macadam surfacing 1 mi. road in Ten Mile Dist.; grading and stone base surfacing 0.5 mi. road in Union Dist.; also building concrete bridge abutments over Little Tenmile Creek, Sardis Dist. M. L. Loudon, co. clk.

W. Va., Harrisville—Oct. 4, by Ritchie Co. Court, improving 2.16 mi. Pennsboro-Pullman-White Oak Rd., clearing 11,450 lin.ft. right-of-way, 21,926 cu.yd. excav., 1,300 lb. reinforcing, 1,110 ft. 15- to 36-in. rein.-con. pipe, etc. D. W. Shock, co. road engr.

Ga., Fitzgerald—Oct. 6, by J. H. Mayes, mayor, and Council, curbing, guttering and paving approximately 21,000 sq.yd. various streets. H. S. Jaudon Eng. Co., Elberton and Fitzgerald, engrs.

Alabama—Oct. 12, by State Hy. Dept., Montgomery, sand clay paving 3.24 mi. roadway between bridge (now under construction) over Chattahoochee River to Federal Aid Project 170-A, Houston Co.; also bridge and approaches over Hatchet Creek, on road between Goodwater and Sylacauga, Coosa Co. W. Finnell, highway dir.

Alabama—Oct. 12, by State Hy. Comn., Montgomery **(S. means State, and F.A.P. Federal Aid Project)**, clearing and grubbing, etc., 2.63 mi. roadway between Wilton and Bibb Co. line, S-44C, Shelby Co., and 17.367 mi. roadway from Florence to Tennessee State line, F.A.P. 195, Lauderdale Co.; grading, etc. 14.95 mi. roadway between Tuscaloosa and Hale Co. lines, F.A.P. 190, Tuscaloosa Co.; concrete paving portion 1st Ave. between 30th and 25th Sts., F.A.P. 164A, Jefferson Co.; sand rock asphalt, limerock asphalt, hot mix, bituminous concrete and sheet asphalt paving 0.907 mi. roadway from Tuskeegee eastward, S-67D, Macon Co.; sand clay paving, etc. 18.448 mi. roadway between Andalusia and Escambia Co. line S-192, Covington Co., and 12.88 mi. roadway between Clio and Brundige S-135, Pike and Barbour Counties; graveling 10.676 mi. roadway between Orrville and west end F.A.P. 169 A, F.A.P. 169 B, Dallas Co.; surfacing roadway from Montgomery to Lowndes Co. line towards Selma, F.A.P. 155, Montgomery Co.; bituminous macadam penetration surfacing 196,000 sq.ft. highway between Jefferson Co. line and Jasper, F.A.P. 116 and 24, Walker Co., and 174,000 sq.yd. highway between Livingston and Mississippi State line by way of York and Cuba, S-27, Sumter Co.; chert surfacing 28,000 cu.yd. roadway from F.A.P. 120 by way of Woodstock to Tuscaloosa Co. line F.A.P. 180A, Bibb Co.; drainage structures on roadway between Tuscumbia and Margerum, F.A.P. 196, Colbert Co.; south approach to bridge over Tennessee River at Decatur, S-190, Morgan Co.; also bridge and approaches over Town Creek on roadway between Tuscumbia and Town Creek, S-101-B, Colbert and Lawrence Counties; and bridge over Sepulga River, on highway between McKenzie and Evergreen, S-222, Conecuh Co. W. Finnell, highway dir.

Ala., Birmingham—Oct. 10, by Bd. Revenue Jefferson Co., asphalt paving 10 mi. extension Mt. Pinson Highway to Mt. Pinson, $90,000; and 6½ mi. Bessemer-Hueytown Highway, $60,000, both 18 ft. wide.

Louisiana—Sept. 29, by State Hy. Comn., Baton Rouge, constructing 26 mi. Sulphur-Cameron Highway, Federal Aid Project 188-A, Unit 1, Cameron Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Ohio—Oct. 9, by G. F. Schlesinger, dir. Hys. and Pub. Wks., grading and paving with **(a)** brick incl. brick **(b)** 2½ in. brick except brick **(c)** 3 in. brick **(d)** concrete **(e)** sheet asphalt **(f)** bituminous macadam **(g)** 2½ in. brick incl. brick, 0.25 mi. Sect. "A-I" Sidney-Urbana Rd., Shelby Co. **(a)** $12,445 **(d)** $8,388, 1.456 mi. Sect. "A-I" Coshocton-Millersburg Rd., Coshocton Co. **(b)** $52,154 **(c)** $53,008, **(d)** $53,275, 0.902 mi. Sect. "Warsaw" Mt. Vernon-Coshocton Rd., Coshocton Co. **(b)** $23,790 **(c)** $24,074 **(d)** $24,018, 2.909 mi. Sect. "D" Bucyrus-Tiffin Rd., Crawford Co. **(d)** $85,062 **(e)** $112,705 and **(f)** $80,547; 1.229 mi. Sect. "Mingo Junction South" Ohio River Rd., Jefferson Co. **(g)** $92,444 **(b)** $95,852 **(d)** $71,793; 2.803 mi. Sect. "B-I" Cleveland-Canton Rd., Cuyahoga Co. **(e)** $154,855 **(c)** $139,322 **(d)** $124,286; 2.489 mi. Sect. "B-2" Cleveland-Canton Rd., Cuyahoga Co., **(e)** $169,813; **(c)** $155,741; **(d)** $137,868; 2.910 mi. Sect "C" Cleveland-Canton Rd., Cuyahoga Co. **(e)** $156,681 **(c)** $137,560 **(d)** $127,443; 4.451 mi. Sect. "I" Bono-Fort Clinton Rd., Ottwa Co. **(d)** $152,069 **(f)** $153,744; also 6.781 mi. Sect. "A." I. C. H. 99, Belmont Co. **(d)** $288,973 **(f)** $296,804; also grading 2.591 mi. Sects. "K," "I," and "M," Pomery-Jackson Rd., Meigs Co. $109,529.

O., Cleveland—Sept. 24, Bd. Comrs., Cuyahoga Co., resurfacing, etc. S.O.M. Center 2. $118,012. Court House, engr.

O., Cleveland—Sept. 28, by City, paving, etc. Euclid Ave. from East 69th to East 79th Sts., and Orange Ave. from East 9th to East 15th Sts. To exceed $50,000. R. Hoffman, City Hall, engr.

O., Cleveland—Sept. 28, by Bd. Comrs. Cuyahoga Co., resurfacing North Woodland Rds. 4 and 6. To exceed $100,000. F. Lander, Court House, engr.

O., Hinckley (br. Medina)—Oct. 15, by Cleveland Metropolitan Park Bd., W. A. Stinchcomb, dir. West 3rd St. and Frankfort Ave., grading Park Dr., here, $60,000. A. W. Zesiger, West 3rd St. and Franklin Ave., Cleveland, engr. Noted Aug. 11.

O., Maple Heights (br. Cleveland)—Sept. 27, by Village, grading and water-bound or bituminous macadam surfacing, etc. 11,350 sq.yd. Bryden Rd., 12,200 sq.yd. Latchwood Rd., 6,670 sq.yd. Hurlingham Rd., and 5,560 sq.yd. Hendown Rd. To exceed $25,000. C. W. Courtney, 1770 East 11th St., Cleveland, engr.

Indiana—Sept. 28, by J. D. Williams, dir. State Hy. Comm., Indianapolis, brick, bituminous concrete or concrete paving F. A. 31 A6, State Rd. 20, Porter Co., F. A. 48 Sect. C-1, State Rd. 29 Laporte Co., and State Rd. 10, Marshall Co.; grading F. A. 92 Sects. B, C, and D, State Rd. 37, Lawrence and Monroe Counties, F. A. 85, Sect. A-1, State Rd. 31, Miami Co., and S-510, State Rd. 57, Greene Co.

Ind., Angola—Oct. 3, by Comrs. Steuben Co., gravel paving William Rummel et al. Rd., Fremont Twp., $7,822; and Chas. Edward Myers et al. Rd., $18,411. F. O. Watkins, aud.

Ind., Brazil—Oct. 4, by Comrs. Clay Co., crushed limestone and gravel paving Henry J. Tiefel, et al. Rd. $57,955. R. E. Barnhart, aud.

Ind., Indianapolis—Sept. 23, by Bd. Pub. Wks., cement paving McCarty St. and Gladstone, Shannon, Graceland Aves; wooden block, brick, asphalt concrete or asphaltic concrete on 6 in. concrete paving Wendell Ave., Correy, Richland, North and Pratt Sts.

Ind., Indianapolis—Sept. 26, by Bd. Pub. Wks., Berea sandstone stratified limestone, granite or concrete curbing, and wood block, brick, asphalt or asphaltic concrete on 6 in. concrete paving Bancroft, New Jersey, Jackson, Laurel and Court Sts., Beechwood, Tacoma, Mills, and Gent Aves.

Ind., Lawrenceburg—Oct 3, by Comrs. Dearborn Co., macadam paving Chris Ennis Rd. $61,455, and George R. Henderson Rd. $13,110. B. McLeaster, aud.

Ind., Lebanon—Oct. 4, by Bd. Comrs. Boone Co., graveling road in Marion Twp. $7,210; concrete paving road, Center Twp. $8,600; graveling road in Center, Perry and Harrison Twps. $12,690, and road in Jackson Twp. $13,400. M. Harvey, Lebanon, aud.

Michigan—Sept. 27 (extended date), at office Houghton Co. Rd. Comn., Hancock bituminous macadam surfacing 9.694 mi. State Trunk Line Rd. M031-19, Contr. 1; and 2.523 mi. M031-18, Contr. 1, both 18 ft., for State Hy. Dept., Lansing. G. D. Tramp, Crystal Falls, resident engr. Noted Sept. 15.

Michigan—Sept. 29, by C. H. Brown, resident engr., 14380 Wyoming Ave., Detroit, concrete paving 4.743 mi. State Assessment Dist. Rd. 294, Oakland and Washtenaw Counties, 20 ft., for State Hy. Dept., Lansing.

Michigan—Oct. 6, by G. D. Tramp, resident engr., Crystal Falls, concrete paving 5.027 mi. Federal Aid Road FO36-13, Contr. 1, 20 ft., Iron Co, for State Hy. Dept., Lansing.

Ill., Chicago — Sept. 22, by Bd. Local Impvts., Room 207, City Hall, 6 to 14 ft. sidewalks on 54 streets and avenues. M. J. Faherty, pres.

Ill., Westmont—Sept. 26, by City, 7 in. rein.-con. paving 61,000 sq.yd. Adams and other streets. $252,000. Kelker, De Lew & Co., 111 West Washington St., Chicago, engrs., adv. E. N.-R. Sept. 22.

Kan., Pratt—Sept. 29, by Pratt Co., grading and bridging 8.938 mi. US 54, Project 91-B. R. S. Kirk, Court House, engr. Noted Sept. 8.

Kan., Wellington—Oct. 13, by Clerk Sumner Co. grading and sand clay surfacing 13.930 mi. Project 66-A, 28 ft. J. W. Mavity, Wellington, engr.

Neb., Hastings—Sept. 26, by City, alternate types paving 2,696 sq.yd. streets in Dist. 140; and 4,100 sq.yd. in Dist. 141. P. T. Naylor, City Hall, engr.

Wyoming—Sept. 30, by State Hy. Comn., Cheyenne, grading, bridging, etc. 87,200 cu. yd. F.A.P. 138-C, Laramie Co., selected material surfacing 11.398 mi. F.A.P. 168-B, Natrona Co.; grading and 3 timber bridges on 11.372 mi. F.A.P. 193-B, Lincoln Co.; and 21 x 98 ft. truck shed, on F.A.P. 682, in Sheridan, also 32 x 60 ft. shed on F.A.P. 678, in Gillette, Campbell Co. Z. E. Sevisin, highway engr.

Tex., San Antonio—See "Contracts Awarded."

Okla., Shawnee—Sept. 20, by J. C. Coleman, city clk., grading, curbing and sheet asphalt paving 5,475 sq.yd. Dist. 56, $31,120. E. T. Archer & Co., 612 New England Bldg., Kansas City Mo., engrs.

Okla., Wewkoa—Oct. 4, by D. R. Fraser, city clk., grading and concrete paving 11,900 sq.yd. streets in Bluff View Addition. $43,386. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Washington—Oct. 4, by State Hy. Comn., Olympia, grading, etc. 282,500 cu.yd. State Road 2, Kittitas Co. S. J. Humes, state highway engr.

Washington—Oct. 11, by State Hy. Comn., Olympia, clearing, grading, etc., approximately 3.6 mi. State Rd. 5, Yakima Co.; and approximately 3 mi. State Rd. 5, Pierce Co. S. J. Humes, highway engr.

Calif., Beverly Hills—Sept. 27, by B. J. Firminger, city clk., curbing, guttering and Topeka paving, etc. Benedict Canyon Dr. J. C. Alberts, city engr.

Calif., Los Angeles—Oct. 3, by Supervs. Los Angeles Co., grading and concrete paving 2.66 mi. Olive St., and 2.81 mi. portion Pomona Blvd. G. W. Jones, Hall of Records, engr.

Calif., San Diego—Oct. 3, by Common Council, grading, curbing and 6 in. concrete paving 198,288 sq.ft. Norragansett Ave. H. W. Jorgensen, city engr. Noted Aug. 25.

Ontario—Sept. 26, by R. M. Smith, engr., Parliament Bldgs., Toronto, traffic bound (tar) macadam paving 4 mi. Meadford Westerly, Contr. 27-99; painting steelwork on Sixteen Mile Creek Bridge, Contr 27-96, and Tansey Creek Bridge, Contr. 27-97, both Dundas Rd., also Dotys Creek Bridge and Thamesford Bridge, Contr. 27-98, for Dept. Pub. Highways, Toronto, $75,000.

Constr. News page 148

For surfacing concrete — quicker, better, and at less cost

Ingersoll-Rand Company has developed a new lightweight air tool for use in finishing the surfaces of concrete and stone.

This machine (known as Size 6G) will quickly and easily remove all form marks from concrete and prepare the surface for a flat finish or for painting. It is ideal for cleaning, smoothing, and finishing concrete walls, bridges, and buildings. It will surface either "green" or old concrete.

It saves time and labor and does a far better job than other devices. The machine weighs only 13¾ lbs. with wheel and is easy to handle in any position. Ask for complete information.

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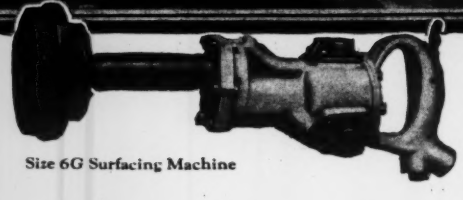


Size 6G Surfacing Machine

Ingersoll-Rand Size 6G Surfacing Machines smoothing up a concrete wall. The tools are being operated from an I-R Portable Air Compressor.

117-PC

Ingersoll-Rand

Streets and Roads (Continued)

Contracts Awarded

New Hampshire—State Hy. Dept., Concord, grading and one course rein.-con. on old surface treated gravel surfacing 18,-566 sq.yd. East Side Rd., Carroll Co., to D. D. Snyder, Inc., Gardner, Mass., $50,735. Engrs. est. $55,000. Noted Sept. 1.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 9,500 ft., highway in East Longmeadow, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $55,-881; and 11,900 ft. in Sutton and Oxford, to Catanese Constr. Co., Fitchburg, $62,148, both 18 ft. wide.

Massachusetts—Dept. Pub. Wks., Boston, to New Haven Constr. Co., New Haven, Conn., graveling 2,200 ft. highway in Holden, $10,140, to W. H. Hinman, Medway, 8,200 ft. in Bellingham, $18,026, both 18 ft., to W. A. Jones, Barnstable, bituminous concrete paving 3,213 ft. in Barnstable $24,-544, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., 23,810 ft. in Harwich, $100,377, rein.-con. paving 12,407 ft. in Lenox and Pittsfield, $144,258, and bituminous macadam paving 17,378 ft. in Russell $163,953 respectively. Grand total $461,298. Noted Sept. 1.

New York—A. W. Brandt, comr. Highways, Albany (**e.e. means engineers estimate**) concrete paving 6.83 mi. Highway 8287, Port Jervis-Wurtsboro Rd., Part 2, Sullivan Co., to Stento & Sarafini, Binghamton, $331,483 e.e. $454,624; 0.17 mi. Highway 1771, Nelliston Village-River St., Montgomery Co., and 3.15 mi. Highway 453, Poughkeepsie-Hyde Park Rd., Highway 9004, Vanderbilt, Dutchess Co., to Westchester Constr. Co., Fort Plain, $8,759 and $212,404 respectively e.e. $9,410 and $295,439 respectively; 5.56 mi. Repair Contr. 3187, Highway 6135, Hyde Park-Staatsburg Rd., Highway 432, Rhinebeck-Hyde Park Rd., Dutchess Co., to Fitzgerald Bros. Constr. Co., Inc., Proctor Bldg., Troy, $402,827 e.e. $535,096; 4.49 mi. Highway 1761, Bangall-Pine Plains Rd., Dutchess Co., to Lane Constr. Co., 37 Colony St., Meriden, Conn., $251,652 e.e. $363,137; 5.38 mi. Repair Contr. 3188 Highway 552, Rhinebeck-Elizaville Rd., Dutchess Co., and 1.73 mi. Repair Contr. 3185, Highway 5092, Red Hook-Rhinebeck Rd., 432 Rhinebeck-Hyde Park Rd., Dutchess Co., to Connell & Laub, Canastota, $369,298 and $102,597 respectively e.e. $528,437 and $151,393 respectively; 5.65 mi. Repair Contr. 3189, Highways 230 and 306, Kingston-Ellenville Rd., Parts 1 and 2, Ulster Co., to Dale Eng. Co., 404 Court St., Utica, $241,488 e.e. 334,743. Grand total $1,920,508. Noted Aug. 25.

N. Y., New York—B. M. Patten, comr. Pub. Markets, Municipal Bldg., grading, paving, etc. Bronx Terminal Market at Exterior and 151st Sts., Bronx Boro, to Del Balso & Sprague, 819 Edgewater Rd., $358,657. Noted Sept. 1.

N. Y., New York—J. Miller, pres. Manhattan Boro, Boro Hall, grading and granite block repaving West End Ave. and Henshaw St., to Asphalt Constr. Co., 2197 Madison Ave., $119,556 and $12,457 respectively. Noted Aug. 25.

N. Y., White Plains—F. L. Merritt, clk. Bd. Supervs., Westchester Co., Court House, rein.-con. and bitulithic paving 2.94 mi. Pelham Rd., Echo Ave. and Main St., to A. E. Ottaviano, Inc., Brook St., Croton-on-Hudson, $563,269. Noted Sept. 8.

Pennsylvania—State Hy. Comn., Harrisburg (**R. means Route and A. Application**), grading, etc. 10,452 ft. A.3760, Monroe Co., to Mapleton Limestone Co., Huntingdon, $16,652; brick on concrete paving 1,901 ft. R.221, Cambria Co., to Duquesne Eng. & Constr. Co., 441 Wabash Bldg., Pittsburgh, $29,524 and 7,066 ft. R.331-289, Lycoming Co., to Busch & Stewart, Inc., 120 South 4th St. Williamsport, $125,195; concrete paving, etc. 45,500 sq.yd. R.55, Sect. 4, Blair Co., to C. Winters Constr. Co., 212 North Main St., Butler $190,200, 8,266 sq. yd. A. 4807, Northampton Co., to R. D. Richardson Constr. Co., 828 Connell Bldg., Scranton $46,882, 51,580 sq.yd. R.200, Crawford Co., to Colonial Constr. Co., 901 Arrott Bldg., Pittsburgh $265,419, 10,600 sq.yd. R.18, Northumberland Co., to Sunbury Cement Products Co., P. O. Box 12, Sunbury $48,186, 40,225 sq.yd. As.216,217 and 4846, Beaver Co., Kemona Lumber Co., Ambridge $190,054; rein-con. paving 7,990 sq.yd. R.509, Dauphin Co., to W. T. Staats Co., 50 West Philadelphia St., York $36,258, 20,235 sq.yd. R.444, A.4806, Lawrence Co., to Wood & Golder, 212 Mechanics St., New Castle $84,076, 20,576 sq.yd. R.140 Lebanon Co., to Pottsville Constr. Co., Mortimer Bldg., Pottsville $97,040, and 6,276 sq.yd. R.214, Butler Co., to W. H. Nicely & Co., Ligonier $30,908. Grand total $1,170,394. Noted Aug. 18.

N. C., Greenville—Sheet asphalt paving, 22,000 sq. yd., various streets, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $50,000.

Ala., Alabama City—Curbing, guttering, walks, etc. on 12 blocks Sansom Ave., to Nixon & Phillips, Lincoln Life Bldg., Birmingham, $25,638. Engrs. est. $26,200.

Ala., Birmingham—City Comm., (**e.e. means engrs. est.**) concrete and brick sewers in 8 blocks in Ave. E., Ensley, to Morgan-Hill Paving Co., Woodward Bldg., $31,320 e.e. $33,200; 7 blocks Pinehurst Sect. (new suburb), to J. J. Goddard, 436 Powell Ave., $11,606 e.e. $12,100; also 5 blocks South Highlands, East Lake, to J. A. Taylor, 1600-10th Ave. S., $8,854 e.e. $13,250. Grand total $51,780.

Miss., Laurel—Asphalt paving one street, and brick on concrete paving 20 streets, to E. A. Finch Co., Citizens Bank Bldg., Hattiesburg, $224,525. Noted May 19.

Miss., Sardis—Panola Co., improving 10.5 mi. main highway from Sardis to Pleasant Grove, 40,000 cu.yd. excav., 6,771 cu.yd. borrow, 7,100 cu.yd. gravel 1 mi. haul, and 6,800 units ½ mi. overhaul, to Novaculite Constr. Co., Marion, $20,836 (150 days).

Louisiana—State Hv. Comn., Baton Rouge, graveling 11.723 mi. Project 167A, Allen Co., to Wimberly & Barbour, Church Point, $58,251. Noted June 9.

La., Natchitoches—Grading and rein.-con. paving, 30,000 yd., Cypress Ave., Jefferson, St. Dennis, New 2nd Sts., etc. to Flenniken Constr. Co., Shreveport, $85,752. Noted Aug. 4.

La., West Monroe—To Gulf Coast Constr. Co., Opelousas, grading and rock asphalt paving Pine St. $38,541, and Clayton St. $16,008; to J. J. Hamiter, Monroe, Auston Ave. $16,170, Stella St. $17,180, North 7th St. $3,551, and Natchitoches St. $23,687. Grand total $115,137. Noted Sept. 1.

Tenn., Cleveland—Grading, curbing and 7 in. concrete paving 4,900 sq.yd. 36th St. 36 ft., to Brown & Pennell, Chattanooga, $23,758. Engrs. est. $35,000. Noted Sept. 1.

O., Cincinnati—C. O. Sherrill, city mgr., curbing, grading, walks and 16,500 sq.yd. asphalt and 33,500 sq.yd. concrete repaving, etc. Erie Ave., to Hannon-Hughes Constr. Co., 911 Atlas Bank, $192,677. Engrs. est. $220,805. Noted Apr. 14.

O., Cleveland — Cuyahoga Co., grading, curbing, guttering and concrete paving, etc. 24,200 sq.yd. Sprague Rd. 4, to N. Siegal, 1668 Eddington Rd., $143,341. Noted Aug. 25.

O., Cleveland—Cuyahoga Co., paving, etc. Columbia Rd., to J. C. Fischer, 16024 Lorain Rd., $172,795.

O., East Liverpool—Improving Orchard Grove Ave., to G. B. Patterson, Wellsville, $25,017. Engrs. est. $25,000.

O., Lakewood (br. Cleveland)—To Enterprise Paving & Constr. Co., 8444 Bway., Cleveland, brick paving Ferndale Ave. $11,-654, Northland Ave. $10,035, Williamson Ave. $5,353, and Wilbert Rd. $15,015; also to Cleveland Trinidad Paving Co., Western Reserve Blvd., Cleveland, asphalt paving, etc. Halstead Ave. $33,728. Grand total $75,785.

Indiana — White Co. (Monticello) and Benton Co. (Fowler) constructing Watson Corner Line Rd., to F. Teach, Morocco, $10,688; and Lehe Rd., to J. F. Fenwick, Rensselaer, $24,690.

Ind., Bloomfield—Auditor Greene Co. constructing Roth Rd., to Sherrell-Blackwell Constr., Bedford, $28,002. Noted July 28.

Ind., Crown Point—Lake Co., rein.-con. paving 14,931 ft. Walter G. Wolft St., to J. Sunderman, Gary, $99,250.

Ind., Decatur—Adams Co., to Macklin-Zehr, Decatur, brick and concrete paving Paul Schulte Rd. $28,112, and Jas. Hurst Rd. $28,428; also concrete paving Geo. Weinhoff Rd., $35,330. Grand total $91,870.

Ind., Goshen—Elkhart Co., constructing Highway 5, and Twp. Rd. S-4, to Bontrager Constr. Co., Elkhart, $63,630 and $18,007 respectively; also Road E-3, to D. H. Fisher New Paris, $13,470. Grand total $95,107.

Ind., Indianapolis—Bd. Pub. Wks., concrete paving Lee St., to A. W. Bowen, 2242 Bway., $10,517; asphalt paving Shannon Ave., to Mead Constr. Co., 906 Lemcke Bldg. $18,159, and Birch Ave., to Marion County Constr. Co., 1600 Southwest St. $14,738. Noted July 28. Grand total $43,414.

Michigan—R. W. Roberts, resident engr., Saginaw, concrete paving 2.025 mi. Federal Aid Road. F029-7, Contr. 1, 20 ft. Gratiot Co., to A. Green, South Haven, for State Hy. Dept., Lansing. $59,756.

Michigan—A. R. Schaefer, resident engr., Newberry, grading 5.090 mi. Federal Aid Road F048-4, Contr. 1, 18 ft. Luce Co., to S. J. Groves & Sons Co., 306 Globe Bldg., Minneapolis, Minn., for State Hy. Dept., Lansing. $55,310. Noted Aug. 4.

Mich., Detroit—Berea curbing and 3½ in. sheet asphalt on 8 in. concrete paving Alger and Waverly Aves., to Cleveland Trinidad Paving Co., 402 Hammond Bldg., $29,205; Monte Vista St. and 4 avenues, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $71,339; Dresden Ave., to Cooke Asphalt Paving Co., 1216 Penobscot Bldg., $19,825; and Maiden and Riopelle Aves., to M. R. Hanna Co., Ryan Rd and Nevada Ave., $59,973. Grand total $180,342.

Mich., Detroit—Stone curbing and 3½ in. sheet asphalt on 8 in. concrete paving 5 avenues, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $114,912; Buena Vista Ave., to Cleveland Trinidad Paving Co., 402 Hammond Bldg., $2,871; and Edmore Dr., to Cooke Asphalt Paving Co., Penobscot Bldg., $30,411. Grand total $148,194.

Ill., Bensenville—Grading, curbing, guttering and paving 91,000 sq. yd. various streets, to Powers-Thompson Co., Joliet, $319,645. Noted Aug. 25.

Ill., Evanston—City and Cook Co., 8 in. rein.-con. paving 28,000 sq.yd. Dempster St., to Arcole Constr. Co., Evanston, $118,-828. Noted Apr. 14.

Ill., Geneseo—Paving 3 streets, to H. A. Reschke Constr. Co., Geneseo, $36,947. Noted June 30.

Ill., Maywood — Curbing, guttering and rein.-con. paving 11,700 sq.yd. 19th Ave., to S. Jaicks, 77 West Washington St., Chicago, $51,371. Noted Sept. 1.

Ill., Winchester—Grading, curbing, and 7 in. rein.-con. paving 17,037 sq.yd. Main St. and around court house, to McElwee & Rogy, Peoria, $41,652. Engrs. est. $47,500. Noted June 30.

Wisconsin—State Hy. Comn., Div. Office 4, Wisconsin Rapids, concrete paving, etc. 40,700 sq.yd. Kilbourn-Mauston Rd., Federal Aid Project 445, and grading, graveling, etc. 2.865 mi. West County Line-Union Center Rd., Federal Aid Project 448-A, both Juneau Co., to Kramp Constr. Co., Berlin, $99,042 and $45,577 respectively.

Wisconsin—State Hy. Comn., Div. Office 2, Stephensen Bldg., Milwaukee, concrete paving, etc. 72,883 sq. yd. Blue Mound Rd., Federal Aid Project 268-A, Milwaukee Co., to Kroening Constr. Co., 5th St. and Windlake Ave., Milwaukee, $202,336. Noted Aug. 25.

Wis., Whitefish Bay—Dept. Pub. Wks., to McGucken & Vander Heyden Co., 314 Ave., Milwaukee, concrete paving Birch Ave. $3,861, Morris Blvd. $5,797, and Hampton Rd. $29,250; to Kroening Constr. Co., 5th St. and Windlake Ave., Milwaukee, Richards St. $30,236; and to Lex Constr. Co., 446-68th Ave., West Allis, 1 alley $661. Grand total $69,805.

Ia., Corning—Grading, curbing and vibrolithic concrete paving 16,000 sq.yd. various streets and concrete paving 4,000 sq.yd. various alleys, to F. C. Akin, Corning. Engrs. est. $115,000. Noted Aug. 18.

Ia., Dysart—Paving 5,500 sq.yd. various streets, to Larson Constr. Co., Albert Lea, $9,636; and 32,091 ft. curbing and guttering, to Hahn Constr. Co., 1105 12th Ave. W., Cedar Rapids, $31,208. Noted May 5.

Ia., Ft. Dodge—Grading, curbing and vibrolithic concrete paving 9.080 sq.yd. and gravel surfacing 245 sq.yd. 8th St., 6th, 7th, and Highland Park Aves., North 9th and 8th Sts., to M. L. Flinn Paving Co., 218 Grain Exch. Bldg., Sioux City. Engrs. est. $30,000. Noted Aug. 25.

Ia., Ida Grove—Ida Co., to G. W. Condon Co., 415 Farnum St., Omaha, Neb., improving county road system, 102,527 cu.yd. excav. at $0.205 per cu.yd., 90,340 sta.yd. overhaul $0.02, and 760 ft. culvert labor $0.20.

Ia., Sac City—Sac Co., to Nelson & Sauer, Lake View, improving Primary Project 157, 34,700 cu.yd. excav. at $0.295 per cu.yd., 190 ft. 12- to 24-in. culvert labor at $0.20 to $0.40 per ft., etc.

Ia., Spencer—Clay Co., to A. B. Teepell, Lake View, county road maintenance work, 13,300 cu.yd. gravel 1 mi. haul at $0.32 to $0.43 per cu.yd., and 92,950 units ½ mi. haul $0.075 and $0.085.

Minnesota—State Hy. Comn., St. Paul, grading, etc., approximately 73,000 cu. yd. State Project 1-26, between Steele Center and Ellendale, to Klemmer Constr. Co., Owatonna, $29,016.

Constr. News page 149

Streets and Roads (Continued)

Minn., Robbinsdale—C. F. Wislon, village mgr., grading, etc., 90,000 cu.yd. streets in McNair Manor, to M. Wunderlich, 1221 Blair St., St. Paul, $66,987. Noted Sept. 1.

Kan., Atchison—Clerk Atchison Co., grading and culverts on 6.817 mi. Federal Aid Project 274-D, 30 ft., to Zeigler Bros., Junction City, Kan., $36,828. Noted Aug. 25.

Kan., Eldorado—Butler Co., to M. R. Ammerman, Wichita, grading 7.991 mi. Project 67-F $57,526, to Stimson Constr. Co., N. E. Bldg., Topeka, 4.557 mi. Project 69-A $19,532, and 3.788 mi. Project 68-B $12,520, also 3 bridges on latter project $9,995. Grand total $89,573. Noted Sept. 1.

Kan., Holton—Jackson Co., sand or gravel surfacing 9.558 mi. Project 112 B, C and E, to D. A. Koehler, Sterling, Neb., $21,717. Noted Aug. 25.

Kan., McPherson—Grading, curbing and concrete paving 16,699 sq.yd. various streets, to J. H. Shears & Sons, P. O. Box 296, Hutchinson.

Kan., Ottawa—Franklin Co., grading and concrete paving 4.794 mi. Federal Aid Project 280-A and C, 18 ft., to Cook & Stucker, Ottawa, $107,676. Noted Aug. 26.

Kan., Seneca—Nemaha Co., grading and culverts on 9.135 mi. Project 310-C, to D. Scherrer, Kansas City, $46,924; 60 ft. steel truss and two 30 ft. I-beam span bridge to Loomis Constr. Co., St. Joseph, Mo., $11,069. Noted Aug. 11.

Neb., Grand Island—Asphaltic concrete paving 7,472 sq.yd. streets in Dist. 71, and sheet asphalt paving 4,679 sq.yd. streets in Dist. 72, to Diamond Eng. Co., Grand Island at $2.18 and $2.36 per sq.yd. respectively.

Neb., Plattsmouth—M. Klinger, city clk., rein.-con. paving, etc. 20 blocks various streets, to John Kerns Constr. Co., 1809 Dodge St., Omaha. Engrs. est. approximately $40,000. Noted May 19.

North Dakota—State Hy. Comn., Bismarck **(F.A.P. means Federal Aid Project)**, to W. W. Noel & Co., Jamestown, graveling 5.03 mi. F.A.P. 15, Sargent Co. $16,384, 7.96 mi. F.A.P. 158 $20,706, and 5.049 mi. F.A.P. 233-A $10,786, both Steele Co.; to J. A. Jardine Bridge Co., Fargo, 0.189 mi. F.A.P. 17, Griggs Co., $11,601; to Miller & Wieuger, Fort Pierre, 9,749 mi. F.A.P. 260-G, Stark Co., $30,094; to Shelp & Malloy, Lemon, S. D., 9.933 mi. F.A.P. 284 $34,835, and 0.939 mi. F.A.P. 301-C $7,400, both Mountrail Co.; to Win Connau, Goodrich, 15.059 mi. F.A.P. 288-A, Bottineau Co. $14,949, and 6.012 mi. F.A.P. 288-B, Renville Co. $5,572; to M. E. Thompson, Minot, 7.188 mi. F.A.P. 389, Bottineau Co. $19,353; to F. O. Smith & Co., Steele, 5.12 mi. F.A.P. 314-A, Oliver Co. $22,831; to W. Collins, Lakota, 11,982 mi. F.A.P. 319-A, Towner Co. $36,680, and 6.258 mi. F.A.P. 352-A, Wells Co. $15,719; to Hettinger Bridge Co., Hettinger, constructing bridge on F.A.P. 284 $12,412, and F.A.P. 301-C $7,481, both Mountrail Co., to C. O. Burnstad, Burnstad, F.A.P. 305-D, Morton Co. $28,800, to J. Simons, Mandau, F.A.P. 305-D $2,535, to C. V. Anderson, Baldwin, F.A.P. 314-A, Oliver Co. $2,416, and to Dakota Concrete Co., Minot, F.A.P. 319-A, Towner Co. $4,758. Grand total $305,312.

Montana—State Hy. Comm., Helena **(F.A.P. means Federal Aid Project)**, grading, etc. 122,667 cu.yd. F.A.P. 244-A, Madison Co., to Hartwig & Sullivan, Dillon $82,531, 79,882 cu.yd. F.A.P. 77-D, Jefferson and Broadwater Counties, to J. N. Brown & Son, Bozeman $43,604 and 88,839 cu.yd F.A.P. 157-A, Custer and Rosebud Counties, to Prahl & Sawtelle, Miles City $35,981; grading, crushed graveling, etc. 4,904 cu.yd. F.A.P. 187-C, Yellowstone Co., to F. E. Collison, Billings $40,589, 6,460 cu.yd. F.A.P. 193-A, Roosevelt Co., to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn. $63,288; scoria surfacing, etc. 13,813 cu.yd. F.A.P. 86-C, Unit 1, Fallon Co., to J. M. Carter, Billings $57,556; constructing two 38 ft timber and two 57 ft. trestle bridges, on F.A.P. 157-A, Unit 2, Custer and Rosebud Counties, to L. V. Lockwood, Clasgow $6,451, also 57 ft. timber pile bridge, on F.A.P. 187-C, Unit 2, Yellowstone Co., and 25 ft. timber pile bridge, on F.A.P. 86-C, Unit 2, Fallon Co., to A. E. Lyle & Co., Billings $2,410 and $4,350 respectively. Grand total $336,760.

Mo., St. Joseph—Park Comrs., 2 in. asphalt on 6 in. concrete paving, 32,354 sq.yd. Northeastern and Northwestern extensions Parkway Blvd., to Metropolitan Paving Co., Donnell Court, $85,612. Noted Aug. 11.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 80,000 cu.yd. earth embankment for approaches to Delmar Blvd. Viaduct over Wabash R.R. tracks between Hamilton and Rosedale Aves., to Nolan & Kraus Constr. Co., 4525 Chouteau Ave. $51,360. Engrs. est. $80,000. Noted Aug. 4.

Mo., Springfield—See "Sewers."

Texas—State Hy. Dept., Austin, grading and concrete paving 6.4 mi. Highway 6, Galveston and Harris Counties, to Muller & Roberts, Hitchcock, $248,711.

Texas—R. A. Thompson, state highway engr., Austin, asphalt paving 386,781 sq.yd. highway from Carrizo Springs to Dilley, Dimmit and Frio Counties, to Lone Star Constr. Co., c/o Alamo Bank Bldg., San Antonio, for State Hy. Dept., Austin. Approximately $70,000.

Tex., Amarillo—Potter Co., brick paving 5 blocks Van Buren St. from 6th to 10th Sts., to L .H. Howard, Amarillo, $24,807. Engrs. est. $30,000. Noted July 14.

Tex., Conroe—Montgomery Co., grading and drainage structures on 6 mi. Highway 19 to Sullivan & Davis, Granger, $23,913.

Tex., Edinburg—State Hy. Dept., Austin, bituminous surfacing 151,178 sq.yd. highway from Edinburg north to Brooks Co. line, Hidalgo Co., to Uvalde Co., c/o City Natl. Bank Bldg., San Antonio, $30,235.

Tex., Hamilton—Rolled rock asphalt on 8 in. sledge stone paving various streets, to Brown & Root, 1904 Post-Dispatch Bldg., $80,000.

Tex., Houston—Constructing Henderson St. from Washington to West Capitol Sts., to Smith Bros., 2402 West Dallas St., $20,878, engrs. est. $25,000; also 2 in. asphalt on 6 in. concrete paving Travis St. from Polk Ave. to a point 120 ft. south of Dennis St., to A. M. Arnold & Co., Summer and Elder Sts., $69,142, engrs. est. $75,000. Noted Sept. 15.

Tex., Laredo—State Hy. Dept., Austin, grading, etc., 12.4 mi. Highway 12-A, Webb Co., to H. B. Zachary, Laredo, $34,815.

Tex., Palestine—Anderson Co., rein.-con. paving 10⅜ mi. Federal Aid Project 453 C, Highway 43, to S. W. Gaylord, Oklaunion, $263,587. Noted Aug. 18.

Tex., Panhandle—Carson Co., grading, etc. 14 mi. Highway 33, 18 ft., to C. H. McLellan, Wichita Falls, $37,440.

Tex., San Antonio—Grading, raising, filling, asphalt topping 8 blocks West Evergreen, Agarita and Euclid Sts., to Uvalde Rock Asphalt Co., Frost Natl. Bank Bldg., approximately $25,000.

Tex., San Antonio—City will widen and pave 2 blocks Buena Vista St. from Santa Rosa Ave. to San Saba St., by day labor. $75,000. I. Ewig, city engr.

Tex., Sweetwater—Nolan Co., 8 in. concrete paving 15.3 mi. Highway 18 ft. from Sweetwater to Taylor Co. line, to J. C. Fields, Denison, $376,186, engrs. est. $450,000. Noted Sept. 1.

Oklahoma—State Hy. Dept., Oklahoma City **(F.A.P. means Federal Aid Pfoject and e.e. means engrs, est.)**, concrete slab surfacing 45,417 sq.yd. Mulhall-Guthrie Rd., F.A.P. 139-A and 40,129 sq.yd. same road, Sect. B, both Logan Co., to Green-Boots Co., 519 West Main St., Oklahoma City, $100,595 and $94,898 respectively, e.e. $110,000 and $100,000 respectively; 67,584 sq.yd. Orlando-Mulhall Rd., F.A.P. 139-D, Logan Co., to H. L. Cannady & Co., 1122 South Lewis St., Tulsa, $154,478, e.e. $165,000. Noted Sept. 1. Grand total $349,971.

Okla., Billings—Grading and concrete paving 9,100 sq.yd. Central St., to Green-Boots Co., 519 West Main St., Oklahoma City, $24,449. Engrs. est. $27,000. Noted Apr. 14.

Okla., Cordell—Washita Co., grading and graveling 46,000 sq.yd. Roads 2, 5 and 6, to J. W. Mann, Cotton Exch. Bldg., Oklahoma City, $184,210. Engrs. est. $200,000.

Okla., Elk City—Grading, curbing and 6 in. concrete paving, etc. 8,710 sq.yd. North 9th St., to Standard Paving Co., 1742 East 6th St., Tulsa, $26,318. Engrs. est. $30,000.

Okla., Muskogee—Grading and 6 in. concrete paving 16,630 sq.yd. Dist. 54, to Gravelle-Hamblin Co., Manhattan Bldg., Muskogee, $50,687. Engrs. est. $55,000.

Okla., Oklahoma City—Sheet asphalt paving 5,600 sq.yd. 14th St. and Euclid Ave., to Western Paving Co., Tradesmens Bldg., $30,591. Engrs. est. $31,000.

Okla., Oklahoma City—Grading and sheet asphalt paving 9,150 sq.yd. 15th St., to Western Paving Co., Tradesmens Bldg., $46,499. Engrs. est. $46,915.

Okla., Seminole—Grading, curbing 7 in. concrete paving, etc. 6,700 sq.yd. streets in Dist. 11, to Ward, Beekman & Brooks, 1801 East 9th St., Oklahoma City, $28,006. Engrs. est. $28,016. Noted July 7.

Okla., Wewoka—D. R. Fraser, city clk., grading, curbing and 6 in. concrete paving 45,300 sq.yd. streets in Dist 10, to Hansen & Pearce, Perrine Bldg., Oklahoma City, $176,075. Engrs. est. $177,268. Noted Aug. 18.

Idaho—State Hy. Comn., Boise, crushed rock surfacing, etc., 36,390 cu.yd. Federal Aid Project 51-A, North and South Highway between Tammack and Round Valley, Washington Co., to March Constr. Co., Spokane, Wash., 1½ in. base $79,280 or 3 in. base $83,979.

Washington—State Hy. Comn., Olympia, crushed rock surfacing, etc. 15,000 cu.yd. State Rd. 5, Kittitas and Yakima Counties, to A. L. Smith, Hardman, Ore., $42,585; crushed graveling 12,000 cu.yd. State Rd. 3, Jefferson and Clallam Counties, to R. A. Sloane, New Richmond Hotel, Seattle, $16,775; and concrete paving approximately 300 ft. Pacific Highway, Brier Crest Fill, King Co., to C. L. Creelman, 1079 25th Ave. N., Seattle, $3,643. Grand total $63,001. Noted Aug. 25.

Washington—State Hy. Comn. **(S.R. means State Road)**, grading, etc. 20,000 cu.yd. Inland Empire Highway Eastern Route, Whitman Co., to J. E. Edwards, 1423 South Adams St., Spokane $7,503, and 195,000 cu.yd. S.R. 9, Federal Aid Project 113, Jefferson Co., to Strong & MacDonald, Inc., 1214 Puget Sound Bank Bldg., Tacoma $295,872; crushed rock surfacing, etc. 14,000 cu.yd. S.R. 11, Spokane Co., to A. Milne, 1853 East Bway., Portland, Ore. $34,900, 25,000 cu.yd. S.R. 3, Ferry Co., to Triangle Constr. Co., 1220 Ide Ave., Spokane $44,962, and 4,000 cu.yd. S.R. 3, Spokane Co., to F. R. Hewett, 2415 Manito Blvd., Spokane $7,000; concrete paving, etc. 33,000 sq.yd. S.R. 1, Snohmoish Co., and 84,500 sq.yd. S.R. 2, King Co., to J. L. Smith Constr. Co., 304 West 36th St., Seattle $90,608 and $210,356 respectively; also constructing box culverts on S.R. 2, King Co., to S. K. Sorenson, Mukeltio, $12,690. Grand total $703,891. Noted Aug. 18.

Washington—State Hy. Comn., Olympia, graveling, etc. 3.82 mi. Federal Aid Project 142-D, King Co., to A. Besoloff, 1715-12th St., Seattle, $135,880.

Wash., CleElum — Concrete paving 4 blocks 1st St. and Pennsylvania Ave., 72 ft., to McHugh & Coluccio, 517 3rd Ave. N., Seattle, $26,049.

Wash., Vancouver—Comrs. Clarke Co., grading, graveling, etc. 2.5 mi. County Permanent Highway 12, to O. D. Wolfe, Washougal, $28,037.

Oregon—State Hy. Comn., Salem, broken stone surfacing, etc. 10,290 cu.yd. Condon Market Rd., Gilliam Co., to A. Milne, Portland $28,708; and Crater Lake Highway, Jackson Co., to C. L. Camp, Gold Hill, $38,387.

Ore., Portland—Grading, crushed rock surfacing and graveling, etc. 1,660 cu.yd. Welland St., to Lindstrom & Feigenrsen, Worcester Bldg., $50,767. Engrs. est. $48,310.

Calif., Alhambra—To Hall Johnson Co., 905 Westminster, improving Main St., 2,260 lin.ft. curbing at $0.54 per lin.ft. 8,715 lin.ft. guttering $0.22, 3,535 lin.ft. walks $0.16, and 136,938 sq.ft. 2½ in. asphaltic concrete paving $0.182 per sq.ft., etc., total $35,954.

Calif., La Mesa—Bd. Supervs., grading, curbing, walks and 6 in. concrete paving 86,207 sq.ft. Lemon and Dale Sts., to D. H. Ryan, Spreckels Bldg., $33,946.

Calif., Los Angeles—To G. R. Curtis, 2440 East St., grading, curbing, guttering and asphaltic concrete paving, etc. 12th St. betwe n Queen Anne Pl. and Rimpau Blvd., $26,208; to Gibbons & Reed, 221 East San Fernando Blvd., Burbank, grading, curbing, guttering and 8 in. concrete paving, etc. 4th and Rita Sts. $206,475, grading, and concrete paving, etc. Burbank Blvd. between Lankershim and Van Nuys Blvds. $141,240, and Nordhoff Ave. between Lindley and Tampa Aves. $44,595; to G. H. Oswald, 366 East 58th St., York Blvd. between Glassell Ave. and Aguillar Way, $370,847; and to M. McGuire, 4166½ South Figueroa St., Whitley Ave. between Grave and Franklin Aves., $137,555. Grand total $926,920.

Calif., Sacramento—Sacramento Co., to A. Teichert & Sons, 1846 37th St., 3 in. Willite paving 1 mi. Lower Sacramento Rd. at $0.187 per sq.ft.; to E. F. Hilliard, 1355 43rd St., 9 x 6 x 9 in. concrete paving 1½ mi. River Rd., 16 ft., and ¼ mi. roadway east of Birden, 20 ft., $0.23, etc.; also portion Sacramento River Highway $39,040. Noted Sept. 1.

Calif., San Diego—Curbing, walks and 2 in. Warrenite on 4 in. asphaltic concrete paving 313,568 sq.ft. Upas and Myrtle Sts., to G. R. Daley, 4430 Boundary St., $82,076.

Ont., Hamilton—Will pave with asphalt Chestnut, Beechwood, Francis, Gage, Pearl

Constr. News page 150

Streets and Roads (Continued)

and Manchester Sts., by day labor, under supervision W. L. McFaul, city engr. $80,000.

Ont., Smith Falls—Concrete curbing, guttering and asphalt on concrete paving 5,000 sq.yd. various streets, to Standard Paving Co., Ltd., Central Chambers, Ottawa. Engrs. est. $25,000.

Ont., Windsor—Asphalt and concrete paving various streets, to Cadwell Sand & Gravel Co., 228 Sandwich St. W., $59,584; to Premier Constr. Co., 924 Windsor Ave., $51,320; and to S. P. West, Sandwich, $48,303. Grand total $159,207.

Buildings—Commercial

Proposed Work

Mass., Boston—OFFICE—Macmillan Co., F. J. Flag, 30 Huntington Ave., plans 3 or 4 story and basement, 40-42 Fairfield Ave., here. $150,000. Engineer and architect not selected.

Mass., Boston—STORES—J. W. French, 73 Tremont St., having plans prepared by L. G. Brackett, 88 Tremont St., seventeen 1 story and basement, irregular shaped, brick and stone, plain foundation, Olive Pl., Washington and Waltham Sts. $150,000.

Mass., Cambridge (br. Boston)—MERCANTILE—H. H. Gulesian, 85 Commonwealth Ave., Newton, having preliminary plans by Funk & Wilcox, 26 Pemberton Sq., Boston, 3 story and basement, 125 x 180 ft. rein.-con. and brick, plain foundation, Brookline, Tudor and Emily Sts., here. $150,000.

Mass., Newburyport — MASONIC TEMPLE—Masonic Temple Assn., G. E. Stickney, Bd. Trustees, plans raising $150,000 funds, masonic temple, Green St. Engineer and architect not selected.

Mass., Plymouth—TEMPLE—Plymouth Lodge A. F. & A. M., 3 story and basement, brick, plain foundation, Court St., to G. Howard & Sons, Olympia Bldg., Brockton. Archts. est. $150,000 or more.

Mass., Wellesley (br. Boston)—STORE OFFICE and SHOP—Owner, c/o C. H. Waterman, Pemberton Bldg., Boston, having preliminary sketches made by F. A. Norcross, 46 Cornhill, Boston, 2 story and basement, irregular shaped, brick and stone, plain foundation, Grove and Washington Sts., Wellesley Sq., here. $300,000.

Mass., Worcester — APARTMENT—H. Coonan, 31 Maplewood Rd., had plans prepared by E. T. Chapin, 304 Main St., 3 story, brick and steel, Pleasant St. $150,000. Noted June 2.

Conn., Bristol — CLUB—Bristol Boys Club, Old Town Hall, Main St., plans raising $150,000 funds, new club, Laurel St. Engineer and architect not selected.

Conn., Hartford — PROFESSIONAL — Equitable Real Estate Co., 750 Main St., plans professional building Asylum St. To exceed $150,000. Engineer and architect not selected.

N. J., Atlantic City — APARTMENT — Owner c/o A. F. Amodio, archt., 45 Branford Pl., Newark, having plans prepared 7 story and basement, brick and steel, plain foundation, here. $500,000.

N. J., Belleville (br. Newark)—APARTMENT—Owner, c/o N. Harris, archt., 20 Branford Pl., Newark, having plans prepared 5 story and basement, 50 x 125 ft., brick and steel, plain foundation, 169-71 Washington St. $150,000.

N. J., Bloomfield—APARTMENT—J. Olmen, 46 Maolis Ave., having plans prepared by S. Singer & A. G. Branch, 60 Park Pl., Newark, 6 story and basement, brick and steel, plain foundation, here. $250,000. Noted June 16.

N. J., Bloomfield—APARTMENT—Owner, c/o R. Krueger, archt., 60 Branford Pl., Newark, having sketches made 5 story and basement, brick and steel, plain foundation, here. $150,000.

N. J., Jersey City—CLUB—Polish American Democratic Club, 22 Liberty Ave., having revised plans prepared by P. Simeone & Co., Inc., 100 Sip Ave., 3 story and basement, 75 x 100 ft., brick and steel, plain foundation, Liberty Ave. $150,000. Noted Apr. 14.

N. J., Jersey City—GARAGE—H. Byrne, 392 Mercer St., having plans prepared by A. Davis, 140 Montgomery St., 1 and 2 story, 200 x 300 ft., brick and steel, plain foundation, Mill Rd. from Mercer to Wayne Sts. $150,000.

N. J., Montclair—APARTMENT—R. H. Sellers, 17 Grove St., having new plans prepared by N. Harris, 20 Branford Pl., Newark, 5 story and basement, brick and steel, plain foundation, 77 Grove St., here. $325,000. Noted June 9.

N. J., Ridgewood—APARTMENT—G. A. Orth, 60 Goodwin Ave., having sketches made by H. Paddon, 1350 Bway, New York City, 3 story and basement, brick and steel, plain foundation, Liberty St. $150,000.

N. J., Ridgewood—THEATRE, STORE and OFFICE—North Oak Impvt. Co., c/o P. Vivarttas, archt., 110-48th St., Union City, soon takes bids 3 story and basement, brick and steel, plain foundation, Oak St. and Franklin Ave. $500,000. Noted Sept. 8.

Pa., Phila.—APARTMENT—M. A. Bernhardt, archt., 127 South 18th St., preparing plans 10 story and basement, 80 x 90 ft., rein.-con., brick and steel, plain foundation, 39th and Sansom Sts., for S. Levick, Bankers Trust Bldg. $3,000,000.

Pa., Phila.—GARAGE—J. E. Fieldstein, archt., Otis Bldg., soon takes bids 1 story, 104 x 215 ft., 115 x 204 ft., rein.-con., brick and steel, plain foundation, Rochelle and Wissahickon Sts. Owners name withheld.

Pa., Phila.—THEATRE—Hodgens & Hill archts., 130 South 15th St., soon takes bids 1 story and basement, 108 x 224 ft., rein.-con., brick and steel, plain foundation, 8th and South Sts., for Rexy Theatre Co., c/o architects. Former b'ds rejected. Noted Aug. 25.

Pa., Pittsburgh—FIRE and POLICE STATION—Dept. Pub. Safety having plans prepared by R. Neff, city archt., and soon takes bids, 3 story and basement, brick and steel, Broad St. $350,000.

Pa., Pittsburgh—OFFICE and WAREHOUSE—Iron City Electric Co., 436-8 7th Ave., having plans prepared by Hunting, Davis & Dunnells, Century Bldg., and soon takes bids 7 story and basement, 50 x 117 ft., rein.-con., brick and steel, 7th Ave. $300,000.

N. C., Charlotte — APARTMENT—Charlotte Apartment House Corp. plans 8 or 10 story and basement apartment. $1,000,000. Engineer and architect not announced.

O., Cleveland—APARTMENT—H. Hradilek, Park Bldg., had plans prepared 3 story and basement, brick, steel and concrete, Edgewater Dr. $300,000. Private plans.

O., Cleveland—APARTMENT—J. Mullholland and associates, 702 Leader Bldg., having preliminary plans prepared 5 story and basement, 52 x 130 ft., brick and steel, Edgewater Dr. and West 117th St. $150,000. Engineer and architect's name withheld.

O., Cleveland—COMMERCIAL and THEATRE—Edgewater Realty Co., c/o Goodman-Shapiro Co., 636 Engineers' Bldg., having plans prepared by A. F. Janowitz, 811 Prospect Ave., 2 story and basement, brick, steel and concrete, Ridge and Pearl Rds. $250,000.

O., Cleveland—HOTEL—Cleveland Hotel Co. having plans prepared by Graham, Anderson, Probst & White, 80 East Jackson Blvd., Chicago, Ill., brick, steel and concrete addition, Public Sq. $1,500,000.

O., Newark—THEATRE—Midland Theaters Corp., Marietta, plans new theatre, here. $175,000.

O., Youngstown—MERCANTILE—Community Stores Corp. plans 2 story and basement, 100 x 150 ft., Indianola and Market Sts. $150,000.

Ill., Chicago — APARTMENT HOTEL and CLUB—Bryn Mawr Beach Hotel Co., B. Marshall, archt. and vice pres., 612 Sheridan Rd., Wilmette, plans 17 story, 250 x 300 ft., Sheridan Rd. between Catalpa and Bryn Mawr Aves. $5,000,000. Bryn Mawr Beach Building Corp. will construct the building. Steel contract for same awarded to Amer. Bridge Co., 108 South La Salle St. Archts. est. $5,000,000.

Ill., Chicago — APARTMENT—Kenmore Avenue Building Corp., c/o R. F. France & Co., archts., 155 North Clark St., having plans prepared 13 story and basement, 60 x 135 ft., rein.-con., brick and stone, 5820 Kenmore Ave. $600,000.

Ill., Chicago—APARTMENT—P. F. Reynolds, 8 South Dearborn St., having plans prepared by McNally & Quinn, 8 South La Salle St., 12 story and basement, 86 x 153 ft., rein.-con., brick and stone, 1500 Lake Shore Dr. $2,000,000. Noted Apr. 14.

Ill., Chicago—OFFICE and STORE—E. M. Willoughby, 77 West Washington St., having sketches made by S. N. Crowen & Co., 22 West Monroe St., 36 story and basement, 80 x 109 ft., Madison St. and South Michigan Ave.

Minn., Kensington—MONUMENT—Kensington Runestone Foundation of Minnesota, had sketches made by Jenson & Foss, 511 Essex Bldg., Minneapolis, monument with square stone shaft 200 ft. high on circular foundation 46 ft. diam. $300,000.

Kan., Rosedale—WARD and NURSES' HOME—State Bd. Administration State House, Topeka, soon takes bids 5 story and basement, 42 x 94 ft., and 29 x 84 ft. ward building, $200,000, also 5 story and basement, 47 x 87 ft. nurses' home, $100,000, rein.-con., brick, stone and steel, here, for University of Kansas School of Medicine, C. D. Cuthbert, State House, Topeka, archt. Noted Aug. 25.

Neb., Wilber—COURT HOUSE—Saline Co., J. M. Korbel, clk., takes bids about Dec. 1, 3 story and basement, 70 x 100 ft. rein.-con. and stone court house, jail and sheriff's residence. $250,000. M. L. Evans, Brandeis Bldg., Hastings, archt. Noted Sept. 1.

Mo., St. Louis—APARTMENT—Owner, c/o C. E. Etz, archt., 110 North 7th St., having preliminary plans prepared 3 story and basement, 180 x 187 x 260 ft., rein.-con., brick and terra cotta, South Kingshighway, $500,000.

Tex., Bryan—HOTEL—R. W. Howell soon lets contract 7 story and basement, 51 x 100, rein.-con., brick and steel, Main and 27th Sts. $250,000. G. L. Walling, 806 Scarsborough Bldg., Austin, archt. Noted Apr. 7.

Tex., Fort Worth — APARTMENT HOTEL—G. T. Vickers, 913 1st Natl. Bank Bldg., Ft. Worth, and J. H. Jones, Goggan Bldg., Houston, having plans prepared by Wyatt C. Hendricks, Inc., 1005 1st Natl. Bank Bldg., 10 story and basement, rein.-con., brick, stone and steel, Rio Grande and Summit Sts. $1,000,000.

Tex., Marshall—HOSPITAL—R. P. DeWitt, archt., 1229 Kirby Bldg., Dallas, soon takes bids 2 story and basement, 40 x 186 ft., rein.-con., brick and steel, here, for Texas & Pacific R.R. Co., E. F. Mitchell, ch. engr., $200,000. Noted Aug. 25.

Tex., San Angelo — OFFICE — Western Reserve Life Insurance Co., c/o J. M. Shannon, having preliminary plans prepared 10 story and basement, brick, plain foundation, $350,000.

Tex., San Antonio—BANK and OFFICE—Central Co., c/o F. Groos, et al c/o Groos Natl. Bank, having preliminary plans prepared by H. T. Phelps, Hick Bldg., rein.-con., brick and stone, plain foundation, Commerce and Navarro Sts. $400,000.

Tex., San Antonio — HOME—Salvation Army takes bids after Oct. 1, 7 story, rein.-con., brick and hollow tile, plain foundation, Presa and College Sts., $150,000. A. B. and R. M. Ayres, 626 Bedell Bldg., engrs. Noted July 28.

Tex., San Antonio — HOTEL, CLUB, GYMNASIUM and GARAGE—San Antonio Turn Verein (Athletic Club), c/o A. Von Jess, Houston and Nacogdoches, Sts., had plans prepared by L. Harrington & Co., archts. and engrs., c/o Builders Exch. Bldg., and takes bids about Nov. 1, 26 story and basement, rein.-con. and brick, plain foundation, Travis, Houston and Nacogdoches Sts. $1,500,000.

Okla., Oklahoma City—HOTEL—Syndicate, headed by C. Moreau, 1st Natl. Bank Bldg., having preliminary plans prepared 24 story and basement, 100 x 140 ft., Grand St. $2,000,000. Engineer and architect not selected.

Okla., Oklahoma City—HOTEL—L. W. Wentz, Ponca City, having preliminary plans prepared 10 story and basement, 125 x 140 ft., rein.-con. and brick, plain foundation, 4th St., here. $1,000,000. Engineer and architect not selected.

Okla., Oklahoma City—MARKET—J. J. Harder, Inc., Tradesmens Bldg., having preliminary plans prepared 2 story, rein.-con. and brick, plain foundation, Reno St. and Western Ave. $250,000. Private plans.

Okla., Shawnee — BANK — State Natl. Bank having preliminary plans prepared by J. T. Davis, Shawnee, 6 story and basement 50 x 140 ft., rein.-con. and brick, plain foundation, Main St. $200,000.

Okla., Shawnee—HOTEL—H. D. Phillips having plans prepared by A. C. Davis, Shawnee, 6 story and basement, 100 x 140 ft., rein.-con. and brick, plain foundation, Bway. $300,000.

Okla., Tulsa—OFFICE—C. C. Cole, Cole Bldg., having preliminary plans prepared 20 story and basement, 75 x 140 ft., steel, plain foundation, 5th St. $1,500,000. Engineer and architect not selected.

Okla., Tulsa—OFFICE—R. T. Daniels, Daniels Bldg., having preliminary plans prepared 27 story and basement, steel, plain foundation, Cincinnati St. $1,500,000. Engineer and architect not selected.

Okla., Waurika—COURT HOUSE—Jefferson Co., having preliminary plans prepared 3 story and basement, rein.-con. and brick, plain foundation, Main St. $200,000. Engineer and architect not selected.

Constr. News page 151

Buildings—Commercial (Continued)

Okla., Wewoka — HOTEL — J. Absher having preliminary plans prepared by J. Davis, Snawnee, 4 story and basement, 50 x 150 ft., rein.-con. and brick, plain foundation, Wewoka St. $150,000.

Okla., Wewoka — THEATRE — Wewoka Theatre Co. had plans prepared by J. J. Davis, Shawnee, 2 story, 75 x 140 ft., rein.-con. and brick, Main St. $150,000.

Wash Seattle—HOTEL—H. A. Vance, c/o V. W. Voorhees, archt., Lloyd Bldg., had plans prepared 18 story and two basements, 600 room, brick and terra cotta, 3rd and Union Sts. $1,500,000.

Ore., Baker—HOTEL—S. R. Booth of Pomeroy Bridge Co., Rv. Exch. Bldg., and T. W. Baker of Baker Constr. Co., 333 Oak St., both Portland, having plans prepared by L. L. Dougan, Kreamer Bldg., Portland, 100 room hotel, Grand Ave., here. $400,000.

Calif., Colusa—HOTEL—Local Businessmen forming organization to finance construction fireproof hotel. $150,000. W. H. Weeks, 369 Pine St., San Francisco, archt.

Calif., Daly City (Ind. br. San Francisco) — THEATRE — Jefferson Theatre having plans prepared by C. H. Jensen, 605 Market St., San Francisco, 1 story, steel and concrete theatre. $150,000.

Calif., Del Rio (mail Sacramento)—HOTEL—T. Scobel Co., 336 Kearney St., San Francisco, plans 2 story, frame and stucco hotel, here. $175,000. Engineer and architect not selected.

Calif., Glendale—HOTEL—H. S. McCormick and associates, 110 West Wilson St., had preliminary plans prepared by A. B. Rosenthal, 6001 Santa Monica Blvd., Los Angeles, 5 story, 60 x 100 ft., Harvard and Orange Sts. $200,000.

Calif., Hollywood—STUDIO—L. West, 5504 Carlton Way., Los Angeles, having preliminary plans prepared by E. H. Lambert, 4073 Beverly Blvd., motion picture studio, here. $1,400,000.

Calif., Los Angeles—APARTMENT—F. Webster, archt., Guaranty Bldg., Hollywood, preparing plans 4 story, 90 x 160 ft., brick, Franklin Ave. $200,000. Owner's name withheld.

Calif., Los Angeles—OFFICE—Los Angeles Realty Bd., 621 South Flower St., plans purchasing site and constructing office building. $300,000. Engineer and architect not selected.

Calif., Los Angeles—THEATRE—Vega Corp., 5625 Whittier Blvd., having plans prepared by W. E. Chadwick, Union League Bldg., 1 story and balcony, 80 x 150 ft., rein.-con., incl. auditorium 1,500 seating capacity, Atlantic Ave. and Whittier Blvd. $150,000.

Calif., Oakland — TEMPLE — Oakland Labor Temple Assn. plans fireproof labor temple. $325,000. Engineer and architect not selected.

Calif., Oxnard—THEATRE and LODGE—Odd Fellows Lodge of Oxnard, plans fireproof, 4th and B Sts. To exceed $150,000.

Calif., Pasadena—APARTMENT—S. W. Bradley, having preliminary plans prepared by W. E. Chadwick, 417 Union League Bldg., Los Angeles, 4 story, 110 x 160 ft., brick apartment, $175,000.

Calif., Redwood City — STORE — Hare, Brewer & Clark, Inc., 130 University Ave., Palo Alto, having plans prepared by Reid Bros., 105 Montgomery St., San Francisco, 1 and 2 story, concrete, Bway. $150,000.

Calif., San Francisco — CLUB — Decimo Club, T. M. Cole, chmn., 358 Flood Bldg., having plans prepared by W. F. Gunnison, Shreve Bldg., 14 story and basement, probably rein.-con. and steel, Eddy and Larkin Sts. $2,000,000.

Calif., San Francisco—TEMPLE—Islam Temple of Mystic Shrine, Shrine Temple, plans 24 story and basement, Masonic temple and office building, in downtown section. $5,000,000. Engineer and architect selected soon.

Calif., San Pedro—OFFICE—W. F. Durr, archt., 128½ West 6th St., preparing preliminary plans approximately 7 story and basement office, in vicinity 5th St. To exceed $250,000. Owner's name withheld.

Calif., San Rafael — HOTEL — Paloma Inn., 603 Lincoln Ave., having plans prepared by C. H. Jensen, 605 Market St., San Francisco, fireproof addition. $150,000.

Calif., San Rafael — THEATRE — J. Albert, 4th and B Sts., having plans prepared by Reid Bros., 105 Montgomery St., San Francisco, 1 story, 4th St. $150,000.

Calif., Santa Cruz — COURTHOUSE — Santa Cruz Co. plans (1st unit) fireproof courthouse. To exceed $175,000. Engineer and architect not selected.

Constr. News page 152

Calif., Santa Maria — HOTEL — J. E. France, c/o L. N. Crawford, archt., Jones Bldg., having preliminary plans prepared 2 story hotel, North Bway. $150,000.

Calif., Santa Monica—MAUSOLEUM—Woodlawn Cemetery takes bids about Sept. 24, 1 story, rein.-con. with 380 crypts, at Woodlawn Cemetery. $180,000. W. H. Hubbard, 110 Sutter St., San Francisco, archt.

Ont., Hamilton—MARKET—City having plans prepared by McPhie & Kelly, Sun Life Bldg., 1 or 2 story and basement, 27 x 300 ft., concrete, brick and steel, McNab St. $150,000.

Ont., Toronto—APARTMENT—Superior Realty Co., Ltd., c/o Kaplan & Sprachman, archts., 305 Dundas St. W., soon lets contract 4 story and basement, 42 x 112 ft., concrete, brick and steel, Lawrence Ave. and Yonge St. $500,000. Excavation contract for above to Shenton & Cronin, 391 Keele St.

Ont., Toronto—GARAGE and SHOWROOM—A. D. Gorrie & Co., 354 Victoria St., plans 2 story and basement, 50 x 100 ft., concrete, brick and steel, Gerrard St. E. $150,000. Engineer and architect not selected.

Ont., Toronto—OFFICE—Canadian Bank of Commerce, King and Jordan Sts., having plans prepared by Darling & Pearson, 2 Leader Lane, 10-12 story and basement, concrete, brick, steel and stone office building. $2,500,000.

B. C., Vancouver—CITY HALL—Plans election in January, $1,000,000 bonds, new fireproof city hall, Central School Grounds. Engineer and architect not selected. Noted July 14.

Bids Desired

Mass., Attleboro—HOME, CLUBHOUSE and STORE—B.P.O.E., 1014, c/o O'Malley & Fitzsimmons, archts., Fanning Block, Pawtucket, R. I., taking bids 2 story and basement, brick and stone, plain foundation, Winter St. $150,000 to $175,000. Noted Sept. 1.

Mass., Boston — QUARTERS—Sept. 28, by City, Hospital Dept., 7 story and basement, brick and limestone, plain foundation, officers and internes quarters, Harrison Ave. $150,000. J. H. Ritchie & Assocs., 250 Stuart St., archts. This corrects report in Sept. 15 issue.

Mass., Brookline (br. Boston)—APARTMENTS—See "Contracts Awarded."

R. I., Providence—APARTMENT—See "Contracts Awarded."

Conn., Danbury — HOME — Sept. 24, B.P.O.E., F. J. Kernick, 2 story, 68 x 134 ft., rein.-con., brick and steel, Main St. $150,000. Sunderland & Watson, 248 Main St., archts. Noted

N. Y., New York—APARTMENT—Bela Bldg. Corp., 1588 Washington Ave., taking bids 6 story, brick, Decatur Ave. $200,000. Glick & Dumas, 375 East Fordham Rd., archts.

N. Y., New York—OUT-PATIENT DEPARTMENT and DORMITORY—Oct. 17, by Bd. Trustees Bellevue & Allied Hospitals, C. A. Perilli, acting pres., 415 East 26th St., general contract out-patient department and female dormitory, at New Bellevue Hospital, 26th St. and 1st Ave.

N. Y., Riverhead—COURTHOUSE—Sept. 26, by Bd. Supervs. Suffolk Co., 3 story and basement, 115 x 117 ft., stone, here. $500,000. M. V. Liddle, Mattituck, archt.

N. J., Bloomfield — APARTMENT — See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awerded."

N. J., North Caldwell (mail Caldwell)—CELL HOUSE and PENITENTIARY—Oct. 5, by Bd. Freeholders Essex Co., Court House, Newark, altering 60 x 250 ft., brick and steel, plain foundation, here. $500,000. Former bids rejected. C. W. Wands, 309 Bloomfield Ave., Caldwell, archt. Noted Aug. 25.

N. J., Orange—APARTMENT—See "Contracts Awarded."

N. J., Plainfield—MASONIC CLUB—F. B. and A. Ware, archts., 1170 Bway., New York City, taking bids 5 story and basement, 118 x 125 ft., brick and steel, plain foundation, 621 Park Ave., here, for Masonic Realty Assn., 127 Watchung Ave. $200,000.

N. J., South Orange—APARTMENT—See "Contracts Awarded."

N. J., Trenton—TEMPLE—O. Schmidt, archt., 201-02 Union Natl. Bank Bldg., Atlantic City, taking bids 3 story and basement, 50 x 110 ft., brick and steel, plain foundation, Elizabeth St. and Pennington Ave., here, for Most Worshipful United Grand Lodge. $150,000. Noted May 17.

N. J., Westfield — APARTMENT — See "Contracts Awarded."

N. J., Westfield—Sept. 26, by J. F. Jackson, archt., 137 East 45th St., New York City, general contract 3 story and basement, brick and steel, plain foundation, Ferris Pl. and Clark St., here, for Y.M.C.A., 116 Elm St. $300,000. Noted Aug. 25.

Ky., Louisville—GARAGE and STORE—See "Contracts Awarded."

O., Cleveland—OPERATING STATION and GARAGE—Sept. 28, by Cleveland Ry. Co., J. D. Alexander, pres., Hanna Bldg., 3 story, 125 x 125 ft, brick, steel and concrete, East 9th St. $175,000. W. Watson and associates, 4614 Prospect Ave., engr. and archt.

O., East Cleveland (br. Cleveland)—COMMERCIAL and APARTMENT—B. D. Roseman, pres., Midland Mortgage Co., Society for Savings Bldg., Cleveland, taking bids 3 story and basement, 60 x 140 ft., brick, Superior and Taylor Rds. $150,000. M. Weiss, Union Bldg., Cleveland, archt.

Ind., Gary—COURT HOUSE—Oct. 4, by Comrs. Lake Co., G. M. Foland, aud., Crown Point, 3 story and basement, rein.-con., brick and stone court house, here. $500,000. J. T. Hutton, Hammond Bldg., Hammond, archt.

Ind., Hammond—APARTMENT — Davis Apartment Co. taking bids 3 story and basement, brick, steel and stone, Davis St. in Robertsdale, here. $150,000. A. C. Berry, Ruff Bldg., archt.

Ind., Jeffersonville — THEATER — H. Switow, 651 West 4th St., Louisville, Ky., taking bids Le Rose Theater, 3 story and basement, 50 x 145 ft., brick, steel and stone, Spring St., here, $150,000. C. J. Epping, 625-3rd St., Louisville, Ky., archt.

Ill., Chicago — APARTMENT HOTEL and CLUB—See "Contracts Awarded."

Ill., Chicago — AQUARIUM — Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., taking bids aquarium octagonal structure, 100 ft. high, 300 ft. diam., incl. 132 exhibition tanks, two reservoirs with 2 m.g. capacity, stone, on circular tract of land in Grant Park, for John G. Shedd Aquarium Society, c/o M. A. Traylor, 38 South Dearborn St. $3,000,000. Noted June 30.

Wis., Milwaukee—APARTMENT—Sept. 24, by C. Keller & Sons, archts., 522 Van Buren St., 6 story and basement, 55 x 101 ft., rein.-con. and brick, plain foundation, Jackson St., for Eastern Realty Co., Milwaukee. $250,000. Noted Sept. 8.

Minn., Stillwater—PRISON—Sept. 29, by Comrs. Administration & Finance, State Capitol, St. Paul, 3 story and basement, rein.-con. and stone addition to prison, incl. steel cells, here. $250,000. C. H. Johnston, 360 Roberts St., St. Paul, archt. Noted June 2.

Neb., Kimball—COURT HOUSE—Sept. 28, by D. T. Heynen, clk. Kimball Co., 3 story, rein.-con., brick and stone court house. $175,000. E. L. Goldsmith & Co., Scottsbluff, archt. Noted June 2.

S. D., Watertown—COURT HOUSE—Oct. 4, by R. H. Stein, aud. Codington Co., 2 and 3 story and basement, rein-con., brick and stone court house. $350,000. U. L. Freed, Watertown, archt. Perkins & McWayne, Paulton Blk., Sioux Falls, associated archts. Noted May 6.

Mo., Kansas City—HOTEL—See "Contracts Awarded."

Tex., McAllen—HOTEL and STORE—See "Contracts Awarded."

Tex., Marshall—HOSPITAL—Sept. 30, by R. P. DeWitt, archt., 1220 Birby Bldg., Dallas, 2 story and basement, 40 x 186 ft., rein.-con., brick and steel, hospital for Texas & Pacific R. R. Hospital Assn., $200,000.

Tex., Port Arthur—MASONIC TEMPLE—Oct. 15 (extended date), by Masonic Temple Assn., Port Arthur, 4 story and basement, 95 x 100 ft., rein.-con., brick and steel building, here. Archts. est. $150,000. W. B. Ittner, Inc., 911 Locust St., St. Louis, Mo., archt. Noted Aug. 25.

Tex., San Angelo—COURTHOUSE—Oct. 3, by Tom Green, Co., c/o J. T. Mathison, judge, 2 story and basement, 64 x 175 ft., brick, stone and steel, rein.-con. $270,000. A. F. Korn, 816 Thomas Bldg., Dallas, archt. Noted Aug. 18.

Calif., Decoto—DORMITORY—Sept. 26, by Mooser & Bolles, archts., Nevada Bank Bldg., San Francisco, two 4 story, brick, terra cotta and rein.-con., for Bd. Trustees

Buildings—Commercial (Continued)

of Masonic Homes, c/o architects. $150,000 or more.

Calif., El Centro — THEATRE and STORE—J. P. Perrine, archt., Lincoln Bldg., Los Angeles, taking bids here, 60 x 140 ft., and 120 x 140 ft., rein.-con. and stucco, 7th and State Sts., for West Coast Theatres, Inc., c/o architect. $150,000. Noted Apr. 7.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—STUDIO, etc.—Mack Sennett Co., Hollywood, taking bids (selected list of contractors), 2 story, 100 x 125 ft., rein.-con. administration building, near Ventura Blvd. and Laurel Canyon Rd. $350,000. H. Cross, 555 Metropolitan Theatre Bldg., archt. Noted July 14.

Calif., Oakland—CLUB—Miller & Warnecke, archts., 1404 Franklin St., taking bids 7 story and basement, brick and steel, incl. auditorium, gymnasium, library, swimming pool, etc., Alice St., for Womens City Club, c/o architects. $300,000.

Calif., Ventura—THEATRE and OFFICE—L. A. Smith, archt., Film Exch. Bldg., Los Angeles, taking bids 3 story and basement, rein.-con., 1,500 seating capacity, Main St., for Amer. Amusement Co., c/o architect. $250,000.

B. C., Tranquille—HOSPITAL—Sept. 30, by P. Philip, engr., Dept. Pub. Wks., Victoria, 3 story, 100 bed, 35 x 250 ft., rein.-con., Sanatorium Grounds, here, for Provincial Govt., Victoria, $200,000. H. Whittaker, Dept. Pub. Wks., Victoria, archt.

B. C., Victoria—HOSPITAL—Sept. 29, by C. E. Watkins, archt., Broad St., 4 and 5 story, 40 x 280 ft., rein.-con., Hospital Grounds, for St. Josephs Catholic Hospital, $300,000. Noted Oct. 14, 1926.

Bids Received

Calif., San Francisco — THEATRE—H. A. Minton, associated archt., Bank of Italy Bldg., theatre, 5,200 seating capacity, on block bounded by Hayes, Market and Polk Sts., from MacDonald & Kahn, Financial Center Bldg., approximately $1,600,000. Noted Aug. 4.

Contracts Awarded

N. H., Nashua—THEATRE—Harrisy & Barry, c/o J. A. Tuck, archt., Park Sq. Bldg., Boston, 1 story and basement, 70 x 150 ft., brick and steel, plain foundation, to C. I. Smith, 30 Winsor Ave., New Haven, Conn. Architect's est. $150,000. Noted Aug. 4.

Mass., Boston — HOSPITAL—Massachusetts General Hospital, Fruit St., remodeling 4 story and basement, brick out patient building, plain foundation, Fruit St., to A. C. Lootz, c/o owner. Archts. est. to exceed $150,000.

Mass., Boston — SALES and SERVICE GARAGE — Studebaker Sales Co., 109 Brookline Ave., 2 story and basement, 105 x 245 ft., rein.-con.and steel, plain foundation, Jersey and Boylston Sts., to F. V. Van Etten Co., 100 Boylston St. Archts. est. $150,000 or more.

Mass., Brookline (br. Boston)—APARTMENT—L. H. Levenson, 43 Wyoming St., Roxbury, will build 3 story, 60 x 200 ft., brick and steel, St. Paul St. and Longwood Ave., by day labor. $150,000. M. E. Levy, 7 Water St., Boston, archt. Noted Apr. 14.

Mass., Brookline (br. Boston)—APARTMENTS—Silberstein & Willis, 161 Devonshire St., Boston, will build 3 story and basement, brick and stone, plain foundation, St. Paul St. and Longwood Ave., here. $150,000. Work wil be done by separate contracts. S. E. Moffie, 51 Cornhill, Boston, archt.

Mass., Brookline (br. Boston)—TEMPLE Congregation Obebie Shalon, 11 Union Park St., Boston, superstructure 1 story, basement and tower, irregular shaped, brick and limestone, Beacon St., to Center Constr. Co., 6 Beacon St., Boston. Archts. est $350,000. Noted June 30.

Mass., New Bedford—TERMINAL—E. T. Fisher & Co., Union and Water Sts., 2 story, 70 x 100 ft., rein.-con., brick and steel, Union St., to J. W. Bishop Co., 555 Pleasant St. Archts. est. $150,000. Noted Sept. 8.

R. I., Providence — APARTMENT — Stephens Realty Corp., Potters Ave., will build 4 story and basement, 110 x 120 ft., brick and stone, plain foundation, Elmwood Ave., Daboll and Mauney Sts. $300,000. Work will be done by separate contracts. Private plans.

Conn., Stamford—APARTMENT—Owner, c/o W. Schimitz, archt., 174 Greenwich Ave., Greenwich, 3 story, 80 x 108 ft., brick and steel, Glenbrook Rd., to Wood Co., Main St. Archts. est. $150,000. Noted Aug. 4.

N. Y., New York—BARRACKS—B. S. Coler, comr. Pub. Welfare, Municipal Bldg., general contract altering and constructing additions to male barracks, City Home Dist., Welfare Island, to Kaufman & Snyder, 165 West 46th St., $89,250. Noted Sept. 1.

N. J Bloomfield—APARTMENT—Pennington Realty Co., 72 Pennington Ave., Passaic, will build 5 story and basement, 105 x 120 ft., brick and steel, plain foundation, 55 Monroe Pl. $175,000. Work will be done by separate contracts. A. Ginsburg, 390 Franklin Ave., Nutley, archt. Noted Sept. 8.

N. J., Newark—APARTMENT—Sanford Heights Development Co., 830 Sanford Ave., will build 3 story and basement, brick and steel, plain foundation, 779-781 Sanford Ave. $150,000. Work will be done by separate contracts. V. H. Strombach, 1243 Springfield Ave., Irvington, archt.

N. J., Orange—APARTMENT—Chanset Realty Co., 786 South 13th St., Newark, will build 5 story and basement, 48 x 115 ft., brick and steel, plain foundation, Central Ave. and Centre St. $175,000. Work will be done by separate contracts. S. Cohen, 134 Branford Pl., Newark, archt. Noted Sept. 15.

N. J., South Orange—APARTMENT—C. Mairarty Constr. Co., Westward Pl., will build 4 story and basement, 125 x 175 ft., brick and steel, plain foundation, South Orange Ave. $400 000. Work will be done by separate contracts. D. H. Trevor, 45 Branford Pl., Newark, archt. Noted Sept. 15.

N. J., Westfield—APARTMENT—Crystal Holding Corp., 47 Elm St., Elizabeth, will build 4 story and basement, 90 x 125 ft., brick and steel, plain foundation, Prospect and Cowperthwaite Sts., here. $175,000. Work will be done by separate contracts. Kasoff & Flatt, 164 Market St., Newark, archts.

Pa., Oil City—THEATRE— G. J. and J. D. Veach, and M. Marks, Oil City, general contract 3 story and basement, 180 x 240 ft., brick and hollow tile, Seneca St., to Day & Zimmerman, Inc., 16th and Walnut Sts., Phila. and C. W. and G. L. Rapp, 190 North State St., Chicago, Ill. Archts. est. $800,000. Noted June 23.

Pa., Pittsburgh—BANK and OFFICE—Amer. Bank & Trust Co., 6th Ave. and Grant St., general contract 6 and 8 story and basement, 60 x 90 ft., brick and steel, 6th Ave. and Grant St., to Rust Eng. Co., 311 Ross St. Archts. est. $500,000. Noted June 9.

Pa., Pittsburgh—HOTEL—A. W. Mellon and J. E. Weston, Rusken Apartments, general contract 22 story and basement, approximately 60 x 120 ft., hotel, Diamond St. and Cherry Way, to H. L. Stevens & Co., 522 5th Ave., New York City, excavation to R. M. Netherlands Co., Maloney Bldg. Archts. total est. $2,000,000.

Pa., Pittsburgh — WAREHOUSE—May Drug Co., May Bldg., and Hunting, Davis & Dunnells, archts., Century Bldg., general contract 5 story and basement, 72 x 132 ft., rein.-con. and brick, Penn Ave., to H. Miller & Sons Co., 2565 5th Ave. Archts. est. $500,000. Noted Aug. 18.

Md., Baltimore—OFFICE—C. N. and N. Friz, archts., Lexington Bldg., 2½ story, 71 x 111 ft., brick, steel and stone, Fayette and Holliday Sts., to H. A. Knott & Co., 2107 North Charles St., for Central Fire Insurance Co., Baltimore and Holliday Sts. $250,000. Noted Aug. 5.

Ga., Atlanta — CLUBHOUSE—Burge & Stevens, archts., 101 Marietta St., 2 story, 48 x 205 ft. club house, and 1 story 56 x 60 ft. bath house, rein.-con., stucco and stone, to Griffin Constr. Co., 308 Spring St., for Capitol City Club, E. Rivers, pres., Palmer Bldg. $200,000.

Ky., Louisville—GARAGE and STORE—J. G. Brown, W. G. Apartments, will build 2 story, 100 x 300 ft. garage, and 1 story, 70 x 285 ft. store, rein.-con. and brick, by day labor. Archts. est. $300,000.

Ky., Louisville—MEMORIAL HOME—E. T. Hutchings, archt., South 5th St., general contract 3 story and basement, 145 x 155 ft., rein.-con. and brick, plain foundation, Cherokee Rd., to Otis & Bruce, Starks Bldg., for Moorman Memorial Home, Cherokee Rd., to exceed $200,000. Noted Feb. 24.

Ky., Louisville—THEATRE and STORE—L. Schuster, 2160 Baringer Ave., 1 story and balcony, 66 x 133 ft., rein.-con. and brick, plain foundation, Eastern Parkway and Bardstown Rd., to Webb-Clark Co., 4th and Liberty Sts., $150,000.

O., Cleveland—STORE—A. Carlin, Euclid Hotel, 3 story and basement, 34 x 126 ft., brick, steel and concrete, Euclid Ave., to Crowell & Little Constr. Co., Hanna Bldg. Archts. est. $150,000. Noted Aug. 4.

Ind., Gary—CITY HALL— G. W. Maher, archt., 157 East Erie St., Chicago, Ill., general contract 2 story and dome, 788,200 ft., concrete and stone city hall, to General Constr. Co., Gary. Noted June 23.

Ind., Goshen — TEMPLE — Masonic Temple general contract brick and steel, Jefferson and 5th Sts., to Sollitt & Sons, South Bend, $150.000.

Ind., Indianapolis — STORE — Ma-Co Realty Co., 846 Illinois Bldg., general contract 2 story and basement, 105 x 220 ft., rein.-con., brick and steel, Maple Rd. and College St., to E. C. Strathmann, 712 Meyer Kiser. Archts. est. $200,000.

Ind., Lafayette — HOSPITAL — Home Hospital, general contract rein.-con., brick and steel hospital, to A. E. Kemmer, Lafayette, $225,000. Noted May 26.

Mich., Fordson — APARTMENT — J. Schaefer, 4 story and basement, irregular shaped, 3 units, 130 x 160 ft., rein.-con., brick and steel, plain foundation, Michigan Ave., to Blair Constr. Co., 3212 Book Tower Bldg., Detroit. Archts. est. $1,000,000.

Mich., Jackson—ELKS TEMPLE—Jackson Lodge B.P.O.E., 4 story and basement, rein.-con. and brick, plain foundation, to North-Moeller Co., South Jackson St. Archts. est. $330,000. Noted Sept. 8.

Ill., Chicago—APARTMENT and STORE—E. Levy, 5017 North Ridgeway Ave., masonry contract 3 story, 130 x 149 ft., brick, 5500-10 Emerald Ave., to P. J. Cullinane, 6641 University Ave. Archts. est. $240,000.

Ill., Chicago—APARTMENT and STORE—Rissman & Hirschfield, archts., 228 North La Salle St., masonry contract 3 story, 96 apartment, brick, 2769-89 Milwaukee Ave., to Douglas Constr. Co., 134 North La Salle St., for Milwaukee & Diversey Building Corp., c/o architects. Archts. est. $350,000.

Ill., Chicago—APARTMENT—Washington Pine Building Corp., c/o Leischenko & Esser, archts., 1st Natl. Bank Bldg., masony and carpentry contract 7 story, 72 x 137 ft., brick, 52-64 Pine Ave. N., to Lind Constr. Co., East 92nd St. and Commercial Ave.; terra cotta contract, to Advance Terra Cotta Co., 203 South Dearborn St. Archts. est. $500,000.

Ill., Chicago — OFFICE and STORE—Madison-Clark Building Corp., c/o D. H. Burnham & Co., Inc., archts., 160 North La Salle St., general contract 23 story, attic and basements, 114,128 sq.ft. rental area, granite, steel, brick and terra cotta, on 50 x 128 ft. site, South Clark and West Madison Sts., to FitzGerald Constr. Co., 105 West Monroe St. Noted Dec. 30.

S. D., Aberdeen—HOTEL—A. L. Ward, 1216 North Main St., general contract rebuilding 6 story and basement, 70 x 140 ft., rein.-con., brick, and stone, recently destroyed by fire, to S. W. Jonason & Co., Aberdeen Archts. total est. approximately $300,000. Noted Aug. 11.

Mo., Columbia—HOTEL and THEATRE—Tiger, Inc., W. E. Smith, Columbia, 9 story and basement, 82 x 142 ft., rein.-con., brick and terra cotta, South 8th St., to Simon Constr. Co., Columbia. Archts. est. $500,000. Noted July 28.

Mo., Kansas City — HOTEL — Fisher Building Co., Commerce Bldg., will build 10 story and basement, 80 x 115 ft., rein.-con. and brick, Gillham Rd. and Harrison St., by day labor. $350,000. U. E. Peters, Orear-Leslie Bldg., archt.

Tex., Amarillo — HOSPITAL — St. Anthony's Hospital, general contract 5 story and part basement, 100 x 150 ft., rein.-con., brick and stone, plain foundation, to Christy-Dolph Constr. Co., Rule Bldg., $213,954. Noted Aug. 25.

Tex., Fort Worth—CLUB—Elks Lodge 124, general contract 5 story and basement, 75 x 80 ft., rein.-con., brick and stone, 4th and Burnett Sts., $200,000; and plumbing, to Beach Plumbing & Heating Co., 300 South Main St., $31,500. Noted Aug. 25.

Tex., Houston—BANK—R. S. Sterling, Post-Dispatch Bldg., 5 story, 105 x 115 ft., rein.-con., brick, steel, stone and marble columns, Main and Franklin Sts., to D. Hall, Cotton Exch. Bldg., $700,000. Noted Aug. 4.

Tex., McAllen—HOTEL and STORE—M. R. Nelson will build 11 story, 100 x 150 ft. rein.-con., brick, by day labor. $350,000.

Constr. News page 153

Buildings—Commercial (Continued)

H. P. Smith, Natl. Bank of Commerce Bldg., San Antonio, archt. Noted June 30.

Tex., San Antonio — GARAGE and SALES—Goad Motor Co., Lexington Ave., 2 story, 165 x 167 ft., rein.-con. and brick, plain foundation, 60,000 sq.ft., floor space, Dallas St. and Lexington Ave., to Heath-Kinsey Const. Co., c/o Builders Exch. Bldg., $104,325. Noted July 28.

Okla., Oklahoma City—OFFICE—Builders Exch. Co., c/o J. B. Landers, Chamber of Commerce Bldg., 10 story and basement, 75 x 140 ft., rein.-con., plain foundation, Grand and Robinson Sts., to Reinhart & Donovan, Tradesmens Bldg., $775,000. Noted June 30.

Okla., Ponca City—STORE and OFFICE—E. W. Marland, 2 story and basement, 150 x 225 ft., rein.-con., brick and stucco, plain foundation, Grand St., to O. D. Black, Ponca City, $225,000. Noted Nov. 11.

Ariz., Phoenix—HOTEL—San Carols Hotel Co., 7 story and basement, 100 x 138 ft., rein.-con., stucco and cast stone, North Central Ave. and West Monroe St., to Kinne & Weserhouse, 220 Black Bldg., Los Angeles, Calif., $300,000. C. Harris, 5th and Olive Sts., Los Angeles, Calif., lessee.

Calif., Culver City—STAGE—Cecil De Mille Studios, 142 x 314 ft. concrete and steel motion picture stage, 67 ft. high, to Union Iron Wks., 5125 Santa Fe Ave. Noted Aug. 25.

Calif., Los Angeles—APARTMENT—C. P. Hubert (owner and engr.), 1210 West 68th St., will build 4 story and basement, 50 x 150 ft., rein.-con., Lake St., by day labor. $150,000.

Calif., Los Angeles—HOTEL—M. G. Kipling, Kipling Hotel, 6 story and basement, 100 x 100 ft., brick and terra cotta addition, 4067 West 3rd St., to Macdonald & Driver, Bd. Trade Bldg., $225,000.

Calif., San Diego—STAGE DEPOT and HOTEL—Pickwick Stage Corp., 102 West Bway., rein.-con. addition, to Edwards, Wildey & Dixon, Edwards-Wildey Bldg., Los Angeles, approximately $250,000. Noted Aug. 11.

Ont., Toronto—APARTMENT—See "Proposed Work."

Ont., Toronto — HOSPITAL — Toronto East General Hospital, A. O. Darling, secy., 2780 Danforth Ave., general contract 3 and 4 story and basement, fireproof, Coxwell Ave., to E. Teagle & Son, 310 Davenport Rd.; carpentry, to A. Clark & Son, 224 August Ave.; structural steel, to Reid & Brown, 73 Esplanade E.; and cut stone, to G. Oakley & Son, 278 Booth Ave. Archts. total est. $250,000. Noted July 28.

Ont., Toronto—HOSPITAL—Hospital for Incurables, Dunn Ave., general contract 4 story and basement, 40 x 50 ft., rein.-con., brick and steel addition, plain foundation, Dunn Ave., to Page & Co., 353 Weston Rd. Archts. est. $150,000.

Buildings—Industrial

Proposed Work

Mass., Boston—BAKERY, GARAGE and REPAIR SHOP—Dorchester Baking Co., c/o M. E. Levy, archt., 7 Water St., having plans prepared 1 story, 65 x 135 ft. brick, plain foundation, Dyer Ave. $40,000.

Mass., Framingham — PLANT — Natl. Radiator Co., C. A. Robertson, mgr., 96 Arlington St., plans brick addition. $40,000. Engineer and architect not selected.

Mass., Everett (br. Boston)—REPAIR SERVICE GARAGE and SHOWROOM—See "Contracts Awarded."

Mass., Fall River—MANUFACTURING—See "Contracts Awarded."

Mass., West Springfield (br. Springfield)—POWER UNIT—Boston & Albany R.R., G. A. Kirley, ch. engr., South Sta., Boston, having plans prepared by Robbins, LeClear & Densmore, 31 St. James Ave., Boston, 1 story, 50 x 115 ft., rein.-con., brick and steel power unit, here. $450,000.

N. Y., Rochester—FACTORY—Owner c/o C. F. Strutz, archt., Cutler Bldg., having sketches made 1 story and basement, brick and steel, plain foundation. $175,000.

N. Y., Rochester — MACHINE SHOP, STORE and WAREHOUSE—L. McCord, archt., Tyler Bldg., soon takes bids 1 story and basement, tile, Culver Rd. and Atlantic Ave., for Rochester Auto Parts, Inc., Culver Rd. $250,000.

Pa., Pittsburgh — PAINT FACTORY—Standard Plate Glass Co., 1st Natl. Bank Bldg., and Hunting, Davis & Dunnells, archts., Century Bldg., taking bids and open same about Sept. 22, 4 story and basement, 32 x 150 ft., rein.-con. and brick, Galveston Ave. $150,000. Noted Aug. 25.

Md., Baltimore — DRY CLEANING PLANT—Fish Dry Cleaning Co., M. Fish, prop., Pennsylvania Ave., having plans prepared by B. Frank, 527 North Charles St., 1 story, irregular shaped, brick and steel, plain foundation, 25th St. and Cecil Ave.

Miss., Kosciusko—MILK CONDENSERY PLANT—Pet Milk Co., Arcade Bldg., St. Louis, Mo., having preliminary plans prepared plant, here. Private plans. $500,000.

Tenn., Kingsport—MACHINE SHOP and FOUNDRY—Kingsport Fdry. & Mfg. Co., W. E. Ring, vice pres. and gen. mgr., plans shop and foundry for manufacturing sugar refinery equipment and blast furnace castings, etc.

Tenn., Oneida—FACTORY—J. H. Wescott Mfg. Co. plans rebuilding spoke and golf stick factory, recently destroyed by fire. $100,000.

O. Mt. Gilead — REPAIR GARAGE—Stauffer Motor Sales Co. having plans prepared by T. W. Newman, 60 North Harrison St., Columbus, 2 story and basement, 47 x 138 ft., brick and concrete, repair garage. $50,000.

Ind Anderson—FACTORY—Ward Stilson Co. having plans prepared by E. F. Miller, Anderson, rebuilding 3 story, 38,000 sq.ft. floor space, fireproof garment factory, recently destroyed by fire. $40,000.

Ind., Bluffton—FACTORY—Grimes Co. having plans prepared brick and steel brass foundry and pattern shop. $43,000. Private plans.

Ind., Hammond—MACHINE SHOP and GARAGE—J. Emmerling having plans prepared by M. Turner, 633 Hohman St., 1 story, 63 x 150 ft. brick and steel, Douglass St. $41,000.

Mich., Detroit — BRASS FACTORY—Higgins Brass Mfg. Co., 12435 Dequindre St., had plans prepared by G. V. Pottle, 1801 David Whitney Bldg., 1 story, 80 x 200 ft., rein.-con., brick and steel, plain foundation, Dequindre St.

Mich., Port Huron — STEEL SHOP—Yaeger Bridge & Culvert Wks., 1801 Kearney St., having plans prepared 2 story, 114 x 202 ft., rein.-con., brick and steel, plain foundation, Kearney St. $75,000. Private plans.

Minn., Minneapolis — BAKERY — Zinsmaster Baking Co., Sherburne St. and Park Ave., St. Paul, having plans prepared by C. W. DeJarnett, 530 43rd St., Des Moines, Ia., 2 and 4 story and basement, rein.-con. and brick, East 29th St. between Park and Oakland Aves. $175,000.

Tex., Corpus Christi—FACTORY—Alamo Iron Wks., 130 Santa Clara St., San Antonio, plans 2 story, 127 x 300 ft., concrete factory. $100,000.

Okla., Bartlesville—ACID PLANT—Natl. Zinc Co., soon takes bids fireproof acid plant. $600,000. Private plans.

Okla., Sand Springs—FACTORY—Southwest Box Co. having preliminary plans prepared new factory. $100,000. C. Tingley, Sand Springs, engr.

Okla., Welectka — POWER PLANT—Oklahoma Power Co., Okmulgee, had preliminary plans prepared 20,000 kw. steam turbine unit addition. $200,000. Byllesby Eng. Co., 231 South LaSalle St., Chicago, Ill., engrs.

Wash., Port Townsend—PAPER MILL—Zellerbach Paper Corp., 1254 1st St., Seattle, plans paper mill, 150 ton initial capacity, here. $4,000,000.

Calif., Oakland—CREAMERY—East Bay Creamery Co., 896-22nd St., had plans prepared by H. White, Syndicate Bldg., 1 story, concrete, 22nd and Market Sts., $40,000.

Calif., San Francisco — FACTORY—M. W. Fischer, c/o W. Lowe, archt., 354 Hobart St., Oakland, plans 3 story and basement, rein.-con., 10th and Howards Sts., here. $175,000, with equipment $275,000. G. Haas & Son, Phelan Bldg., lessee.

Ont., Almonte—DAIRY—Producers Dairy Ltd., 275 Kent St., Ottawa, having plans prepared by S. Comber, 10 Cathcart St., Montreal, Que., 1 or 2 story and basement, 55 x 85 ft., rein.-con. and brick dairy, here. $50,000.

Ont., Tecumseh — ROUNDHOUSE MACHINE SHOP, etc.—Canadian Natl. Ry., New Union Sta., Toronto, T. T. Irving, ch. engr. (Central Region) having plans prepared brick and steel 30 stall roundhouse, machine shop and yards, incl. switches, grading and ballasting, here. $1,000,000.

Ont., Toronto — FACTORY — Willys-Overland Ltd., Weston Rd., having plans prepared 1 and 2 story and basement, brick and steel addition, concrete foundation. $300,000.

Ont., Toronto—PAPERBOARD MILL—Dominion Boxboards, Ltd., 130 Duchess St., having plans prepared 1 story, concrete, brick and steel, machine room 55 x 400 ft., beater and finish room 100 x 600 ft., concrete foundation, $1,000,000. J. L. Carey, 208 North Laramie Ave., Chicago, Ill., engr.

Bids Desired

Mass., Needham (Ind br. Boston)—REPAIR and SERVICE GARAGE—Owner c/o J. H. Rogers, archt., 10 State St., Boston, taking bids 1 story rein.-con. brick and steel, plain foundation, here. $40,000.

R. I., Pawtucket—MILL—Superior Cabinet Works, Inc., R. L. Norstern, 93 Newell St. taking bids 1 story, 170 x 250 ft., brick, plain foundation, Newell St. To exceed $40,000. E. G. Pullard & Son, 908 Purchase St., New Bedford, archts. Noted March 31.

Md., Baltimore—DAIRY—Sept. 26, by McCormick & Co., archts., 121 South Negley Ave., Pittsburgh, Pa., 3 story, 79 x 185 ft., rein.-con., brick and steel addition, Exeter and Colvin Sts., here, for Fairfield Farm Dairy, Inc., Exeter and Colvin Sts. $150,000.

O., Elyria—FACTORY—Colson Co., c/o R. W. Dailey, engr., taking bids 3 story and basement, 100 x 192 ft., brick and steel factory. $125,000. Private plans.

Ind., Vincennes — FACTORY — W. L. Evans taking bids 2 story and basement, 85 x 140 ft., brick and steel factory. $45,000. Sutton & Routt, Vincennes, archts.

Wis., Milwaukee—MANUFACTURING—Federal Eng. Co., engrs., 440 Milwaukee St., taking bids 3 story and basement, 100 x 140 ft., rein.-con. and brick, wood pile foundation, Reed and Virginia Sts., for Eagle Knitting Co., 186 East Water St.

Iowa—GARAGES—Sept. 27, by State Hy. Comn., Ames, Three 98½ x 28 ft. garages, one at Greenfield, one at Winterset and other at Albia, also 59 x 28 ft. garage at Creston. W. O. Price, Chariton, dist. engr.

Contracts Awarded

Mass., Arlington (br. Boston)—REPAIR and SERVICE GARAGE—J. J. O'Brien, Mass. Ave., 1 story brick, steel and stone, plain foundation, Mass. Ave. to F. B. Locatelli, 46 Cornhill, Boston. Architect's est. $40,000. Noted Sept. 8.

Mass., Cambridge (br. Boston)—FACTORY—Cambridge Rubber Co., 748 Main St., 5 story, 75 x 95 ft., rein.-con. and brick addition, plain foundation, to Scully Co., 238 Main St. Engrs. est. to exceed $40,000.

Mass., Cambridge (br. Boston)—FACTORY—Tailby-Nason & Co., 368 Congress St., Boston, 3 story, brick and timber, Amherst and Carlton Sts., to H. L. Hauser Building Co., 263 Summer St., Boston. Engrs. est. $50,000. Noted July 21.

Mass., Chelsea (br. Boston)—FACTORY—Savanah Food Products Co., 129 Everett Ave., 2 story, rein.-con. brick, plain foundation, Everett Ave. to Waldman Bros., 145 Franklin Ave. Archts. est. $40,000.

Mass., Dorchester (br. Boston)—PLANT—J. Pollak Tool & Stamping Co., 81 Freeport St., 1 story, rein.-con. and brick, boiler room addition, plain foundation, to C. C. Temple Co., 99 Chauncy St., Boston.

Mass., Everett (br. Boston)—REPAIR and SERVICE GARAGE and SHOWROOM—Maltzman & Rovner, 22 Summer St., will build 1 story 85 x 140 ft., rein.-con. and brick, plain foundation, Chelsea and Clinton Sts. $40,000. Work will be done by separate contracts. Eisenberg & Feer, 46 Cornhill, Boston.

Mass., Fall River—MANUFACTURING—V. R. Destremps, 4 Borden Blk., will build 1 story and basement, 50 x 140 ft., timber, plain foundation, McGovan Ave., by day labor. L. G. Destremps, 4 Borden Blk., archt.

Mass., Monson—MILL—A. D. Ellis & Sons, 288 Main St., 3 story, 40 x 100 ft., and 1 story, 50 x 80 ft., brick, steel and timber additions, to Adams & Ruxton Co., 1387 Main St., Springfield. Archts. est $100,000. Noted Sept. 1.

Mass., New Bedford—REPAIR SHOP—Fire Dept., 2 story, brick, plain foundation. Purchase St., to Olsen & Appleby, 62nd St. Noted Aug. 4.

Mass., South Attleboro—MANUFACTURING—Raymond Cooperage Co., Smithfield Ave., Pawtucket, R. I., 1 story and basement, 40 x 125 ft., timber, concrete founda-

Constr. News page 154

Buildings—Industrial (Continued)

tion, Bway. here, to J. Demarais, 115 Bellevue Ave., Pawtucket, R. I. Engrs. est. $40,000.

Conn., Bridgeport — GARAGE — F. L. Mills Co., 2316 Fairfield Ave., 1 story, 100 x 200 ft., brick, steel and timber, plain foundation, service station garage, Dewey St. to W. J. Shaughnessy, Jr., Fairfield Ave. Noted Sept. 1.

Conn., Waterbury — FACTORY—Amer. Fastener Co., 54 Maple St., 5 story, 40 x 100 ft., rein.-con. and brick, plain foundation, Maple St., to J. M. and C. J. Buckley, 128 Vernon St., Worcester, Mass. Archts. est. $75,000. Noted Aug. 25.

Conn., Waterbury — MATTRESS FACTORY—Waterbury Mattress Co., Benedict and West Clay Sts., 3 story, 50 x 115 ft., rein.-con. and brick addition, to L. Scigliano, 214 Oak St. Archts. est. $40,000.

Pa., Phila.—SUB-STATION—J. T. Windrim, archt., Commonwealth Trust Bldg., 2 story and basement, 60 x 80 ft., rein.-con. and brick, plain foundation, Westmoreland and Fox Sts., to Murphy Quigley Co., 1524 Sansom St., for Phila. Electric Co., 10th and Chestnut Sts. Noted Sept. 1.

Pa., Pittsburgh — LAUNDRY—P. & O. Laundry Co., Neville St., general contract 2 story and basement, 61 x 134 ft., rein.-con. and brick, Neville St., to Toupet Building Co., 3412-5th Ave. Archts. total est. $80,000.

Pa., Pittsburgh—FREIGHT STATION—Pittsburgh & West Virginia Ry. Co., Wabash Bldg., general contract altering freight station, 2nd Ave. and Ferry St., to D. T. Riffle, 1006 Forbes St. Archts. est. $40,000.

Pa., West Homestead (mail Homestead) —PLANT—Mesta Machine Co., Homestead, general contract 1 story, 80 x 400 ft., brick and steel addition, here, to Austin Co., Union Trust Bldg., Pittsburgh. Archts. est. $40,000.

O., Cleveland—FACTORY—Ohio Varnish Co., 9001 Kinsman Rd., 1 and 2 story and basement, 55 x 70 ft. brick and steel, 9001 Kinsman Rd., to J. L. Hunting Constr. Co., Guarantee Title Bldg. Archts. est. $40,000. Private plans.

O., Mt. Vernon—PATTERN SHOP—C. and G. Cooper Co., 1 story, 100 x 129 ft., brick, to H. K. Ferguson Co., Hanna Bldg., Cleveland. Archts. est. $40,000.

Ind., Indianapolis — FACTORY — J. D. Adams, 217 South Belmont St., general contract 1 story, 146 x 263 ft., brick and steel factory, to Hall Constr. Co., Bd. Trade Bldg. Archts. est. $42,000.

Mich., Flint—PLANT—Chevrolet Motor Co., 1 story, 200 x 500 ft., rein.-con., brick and steel addition, plain foundation, to H. G. Christman Co., Flint P. Smith Bldg. Archts. est. $150,000. Noted Sept. 1.

Mich., Pontiac—PAINT SHOP — Fisher Body Corp., General Motors Bldg., Detroit, 1 story, 75 x 560 ft., brick and steel, plain foundation, here, to J. A. Utley, 720 Penobscot Bldg., Detroit. Archts. est. $150,000.

Ill., Chicago—FACTORY—C. W. Lempe & Co., archts., 155 North Clark St., masonry contract 4 story, 65 x 117 ft., brick, 5547-51 Ravenswood Ave., to F. Ockerlund & Co., 4909 Lincoln Ave. for Halsey Bros., Co., 645 St. Clair St. Archts. est. $100,000. Noted Mar. 24.

Ia., Ames—DAIRY—State Bd. Educ., c/o W. H. Gemmill, secy., Des Moines, general contract 3 story and basement, rein.-con. and brick, here, to J. and W. A. Elliott Co., 905 Lumber Exch., Minneapolis, Minn., for Iowa State Cillege. $318,632. Noted Aug. 25.

Ia., Sioux City—SERVICE—Sioux City Gas & Electric Co., 2 story and basement, 150 x 220 ft., rein.-con. and brick, to W. A. Klinger, Inc., 508 Warnock Bldg., Sioux City. Archts. est. $300,000.

Minn., Minneapolis—POWER PLANT—Minneapolis Mfg. Co., East Hennepin and 5th Aves. S. E., general contract rein.-con. and brick power plant and concrete stack, etc., 3200 East Hennepin Ave., to Arnold Constr. Co., 510 Guardian Life Bldg., St. Paul. Archts. est. $60,000. Noted Mar. 10.

Minn., Minneapolis—FACTORY—McGill Paper Products Co., 700 6th St. S., general contract 4 story and basement, 158 x 200 ft., rein.-con., brick and Bedford stone addition, 100,000 sq.ft. floor space, 7th Ave. S. and 5th St., to Stahr-Burgum Co., 401 Metropolitan Bank Bldg. Archts. total est. approximately $125,000.

Mo., St. Louis—POWER PLANT—Terminal Railroad Assn., 1800 Market St., 1 story and basement, 46 x 70 ft., rein.-con. and brick, 3251 Scott Ave., to Parker Russel Mining & Mfg. Co., 3314 Morganford Rd.

Tex., Beaumont—POWER PLANT—Gulf State Utilities Co., c/o J. G. Holtzclaw, vice pres., addition to Neches River Power Plant, near here, to Stone & Webster, 49 Federal St., Boston, Mass.; 35,000 kw. turbo generator, to Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.; and two 1,530 hp. boilers, to Babcock & Wilcox Co., 185 Liberty St., New York City. Engrs. est. $1,000,000. Noted Aug. 18.

Tex., Dallas — PLANT — Coca-Cola Bottling Co., 1 story brick addition, 1101 2nd Ave., to R. R. Stapler, Southwest Life Bldg., $50,000.

Ont., Bratford—FACTORY—Verity Plow Wks., Canal Rd., general contracts 4 story, 60 x 200 ft., concrete, brick and steel addition, to Britnell Contg. Co., Yonge and Baxter Sts., Toronto; heating, to Purdy Mansell Co. Ltd., 63 Albert St., Toronto. Archts. total est. $100,000.

Ont., Hamilton—FOUNDRY, CHEMICAL LABORATORY and MELTING—Canadian Westinghouse Co., Ltd., Sanford Ave. N., general contract 2 story and basement, 55 x 262 ft., rein.-con., brick and steel, Aberdeen Ave., to W. H. Yates Constr. Co., 17 Main St. E., and structural steel, to Hamilton Bridge Wks., foot Bay St. Archts. total est. $175,000.

Ont., Toronto—PLANT — Telfer Paper Box Co., 14 Duncan St., general contract 3 story and basement, 70 x 130 ft., rein.-con. addition, to Jackson Lewis Constr. Co., Federal Bldg. Archts. est. $160,000.

Ont., Windsor — FACTORY — United States Playing Card Co., W. W. Morley, mgr., 657 Victoria St., 1 story, 90 x 422 ft., concrete, brick and steel, Mercer St., to S. E. Dinsmore Co., Giles Blk. E. Archts. est. $210,000.

Buildings—Educational, Religious

Proposed Work

Me., Bath — SCHOOL—W. A. Furber, chn., building comr., plans 2 story and basement, brick and stone, grammar school, $150,000. Engineers and architects not selected.

Vt., St. Albans—HIGH SCHOOL—Town, R. E. Royce, chn. Building Com., plans 2 story and basement, brick and steel high school. $200,000.

Mass., Amesbury—HIGH SCHOOL—Bd. Educ. plans addition Main St. $150,000. Engineers and architects not selected.

Mass., Clinton — CHURCH — St. Marys Roman Catholic Church, A. Oszajca, pastor, plans reconstructing church recently destroyed by fire. $150,000 or more. Engineer and architect not selected.

Mass., Medford (br. Boston) — HIGH SCHOOL—City, Schoolhouse Building Com., C. H. Lowell, chn., having plans prepared by C. B. Dunham, 6 Beacon St., Boston, 3 story and basement, 65 x 115 ft., 65 x 190 ft. and 85 x 205 ft., brick, granite and limestone, addition to Senior High School, plain foundation, Forest St. $800,000. Noted Aug. 4.

Mass., Medford (br. Boston—SCHOOLS —City, A. Leary, chn. building com., plans 2 story and basement, brick addition, to Tufts and Hillside Schools. $150,000. Engineer and architect not selected.

Mass., Springfield—SCHOOL—City plans brick and steel addition, to E. Pinney, Inc., Dwight St., $166,150.

Mass., Winthrop—HALL—School Com., having sketches made by W. N. Bacon, 27 Kilby St., Boston, 2 story and basement, brick and stone, plain foundation, Herman and Winthrop Sts. $150,000. Noted Nov. 25.

Conn., Hartford — ASYLUM — Hebrew Orphan Asylum, Inc., S. Cross, 18 Asylum St., having revised plans prepared by Ebbets & Frid, 15 Lewis St., 3 story and basement, 45 x 125 ft., brick and steel, Blue Hills and Towers Aves. $150,000. Noted July 14.

Conn., Hartford—SCHOOL — Southwest School Dist. having plans prepared by Ebbets & Frid, 15 Lewis St., 2 story and basement, brick and steel addition, White St. $150,000.

Conn., Hartford—TRADE SCHOOL—Bd. Educ. having plans prepared by C. J. Maemfeldt & T. M. Prentice, 118 Asylum St., brick and steel, Washington St. $375,000. Noted June 23.

Conn., Meriden—NURSES HOME—Meriden Hospital, E. W. Pierce, chn., Building com., had plans prepared by L. Hamilton, 119 Main St., 3 story, 75 x 115 ft., brick and steel, Cook and Orange Aves. $150,000. Noted Aug. 11.

N. Y., New York—CHURCH and AUDITORIUM—St. Theresa's Roman Catholic Church, Morris Park and Pilgrim Aves., takes bids about Sept. 20, church and auditorium. DePace & Juster, 6 East 46th St., archts.

N. J., Morristown—HIGH SCHOOL—Bd. Educ., 50 Early St., having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, 3 story and basement, brick and steel addition, plain foundation. $200,000.

Steam heating, ventilating, boilers, stone, brick, terra cotta, metal lath, flooring pipe and waterproofing.

N. J., South Plainfield—SCHOOL—Bd. Educ., Plainfield Ave., having sketches made by G. M. Ricci, 224 Smith St., Perth Amboy, 2 story and basement, brick and steel, plain foundation, Hamilton Blvd. $150,000.

Pa., Erie—HIGH SCHOOL—Bd. Educ., R. S. Scobell, secy., having plans prepared by Meyers & Johnson, Commercial Bldg., 2 story and basement, 265 x 383 ft., brick, steel and concrete, here. $1,000,000. Mayer & Valenting, Plymouth Bldg., Cleveland, O., engr.

Pa., Carlisle—GYMNASIUM—Dickenson College having plans prepared by W. W. Emmart, Union Trust Bldg., Baltimore, Md., 2 story and basement, 86 x 123 ft., and 41 x 115 ft., rein.-con., brick and steel, plain foundation, campus.

Pa., Pittsburgh—CONVENT—Link-Weber & Bowers, archts., Craig St., take bids about Sept. 22, 2 and 3 story and basement, irregular shaped, brick, steel and tile, Ross Twp., for Order St. Frances, Ross Twp. $150,000.

Pa., Pittsburgh—SCHOOL — Bd. Educ., Fulton Bldg., having plans prepared by T. Pringle, Renshaw Bldg., 2 story and basement, irregular shaped, brick and steel addition, Lincoln Ave. $150,000.

Tenn., Nashville—SCHOOLS—Bd. Educ., Hume Fogg Bldg., having plans prepared by C. K. Colley, 4th and 1st Bldg., East Nashville School, by G. D. Waller, Independent Life Bldg., Homes Avenue School, by Asmus & Clark, Nashville Trust Bldg., West Nashville School, by H. S. Hibbs, Amer. Trust Bldg., Tarbox School; and by McKissock & McKissock, Morris Memorial Bldg., Negro High School. $800,000.

O, Jackson—HIGH SCHOOL—Bd. Educ. having plans prepared by G. Scott, Norwalk, brick, concrete and stone high school. $250,000 bond election in November for same.

Ind., Indianapolis — HIGH SCHOOL—Comrs. Technical School, 1500 East Michigan St. takes bids about Sept. 30, 3 story, two wings 60 x 100 ft., rein.-con. and brick high school, $250,000. Vonnegut, Bohn & Mueller, 610 Indiana Trust Bldg., archts.

Mich., Hamtramck (br. Detroit)—COMMUNITY HOUSE—Tau Beta Society, O. Walbert, 3055 Hanley Ave., having plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., Detroit, 4 story and basement, rein.-con. and brick, plain foundation, Hanley Ave. $200,000. Noted Apr. 7.

Mich., Holland — SCHOOL—Bd. Educ. having plans prepared by Robinson & Campau, 715 Michigan Trust Bldg., Grand Rapids, 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation, $175,000.

Ill., Chicago—SCHOOLS—Bd. Educ., 650 South Clark St., J. L. Coath, pres., having plans prepared by J. C. Christensen, 650 South Clark St., 7 new high school buildings, one at 4015 Norht Ashland Ave., one at Fullerton and Linder Aves., one at Foster Ave. and North Robey St., one at Essex Ave. and 82nd St., one at Carmen and Christiana Aves., one at Hulbut St. and Northcott Ave., and other one at Barry and Melvina Aves.; 13 elementary and high school additions, one at 6250 South Wood St., one at 4343 Wrightwood Ave., one at Douglas Blvd. and Lawndale Ave., one at 2216 Hirsch St., one at 4430 Beacon St., one at 4250 South Rockwell Ave., one at 4439 and one at 4901 both St. Lawrence Ave., one at 650 East 91st Pl., one at 13231 Burley Ave., one at 101st St. and Union Ave., one at 936 East 54th St., one at 1355 South Kedvale Ave, and other at 9210 Chappel Ave.; also 3 elementary school buildings, one at Parker and Lakewood Aves., one at Dickens and Melvina Aves., and other at Argyle St. and North Avers Ave. $20,000,000.

Minn., Minneapolis — SCHOOL — Bd. Educ., G. F. Womrath, bus. mgr., 305 City Hall, having plans prepared remodeling and constructing 2 story and basement, rein.-con. and brick addition, 36th Ave. and 51st St. $250,000. Private plans.

Bids Desired

Mass., Fall River—SCHOOL—Sept. 24, School Dept., 3 story and basement, brick and steel, Dwelly, Lewis and Slade Sts., $500,000. J. I. Higgins, 44 Borden Block, archt. Noted July 28.

Mass., Malden (br. Boston)—SCHOOL—Sept. 26, by City, F. G. Marshall, supt., School, Junior High School, 2 story and basement, 165 x 300 ft., brick and stone, plain foundation, $450,000. Desmond &

Constr. News page 155

Buildings—Industrial (Continued)

Lord, 1 Beacon St., Boston, and C. F. Springall, 84 Sprague St., archts. Noted Aug. 18.

Mass., Springfield—CHURCH—Sept. 30, by Allen & Collins, archts., 75 Newbury St., Boston, 1 story and basement, brick and stone, plain foundation, Church and Tower Sts., for Trinity Grace Methodist Episcopal Church, $150,000.

N. Y., Oswego—SCHOOLS—Oct. 6, by Dept. Educ., 2 schools one on Fitzhugh Park site, and other on Kingsford Park site. M. C. Miller, McKinley Bldg., Buffalo, archt. for former, and G. L. VanAuken, 411 East Jefferson St., Syracuse, for latter schools.

N. J., Fort Lee—HIGH SCHOOL—Sept. 27, by Bd. Educ., Municipal Bldg., general contract 2 and 3 story, brick and steel, plain foundation, Lemoine Ave. $675,000. E. Sibley & L. C. Lucht, 1034 Edgewood Lane, Palisade, associated archts. Noted June 16.

N. J., Summit—HIGH SCHOOL—Sept. 26, by Bd. Educ., 272 Morris Ave., general contract 3 story and basement, brick and steel, plain foundation. $200,000. Guilbert & Bettelle, 24 Branford Pl., Newark, archts. Noted Sept. 15.

Pa., Lansdowne—HIGH SCHOOL—Sept. 27, by Bd. Educ., c/o F. S. Underhill, 112 North Broad St., Phila., Junior and Senior High School, 2 story and basement, 79 x390 ft., and 119 x 127 ft., brick and steel, Green and Highland Sts., Heacock & Hokenson, 1211 Chestnut St., Phila., archts. Noted Sept. 15.

O., Cleveland—ACADEMY—H. A. Walsh, archt., Advance Bldg., taking bids and opens same about Oct. 1, 3 story and basement, 163 x 212 ft., brick, steel and concrete, Rocky River Rd., for St. Joseph Academy, Riverside Dr. $400,000.

Ind., Lafayette—DORMITORY—Purdue University taking bids 3 story and basement, 42 x 270 ft., rein.-con and brick, Franklin Levering Gary Memorial Hall, $200,000. W. Scholer, Painters & Decorators Bldg., archt. Noted July 14.

Ind., South Bend—CHURCH—Methodist Episcopal Church, A. Shannon, pastor, taking bids steel and stone addition, River Park. $150,000. L. H. Sturges, 527 Bd. Trade Bldg., Indianapolis, archt.

Ind., South Bend—CHURCH—Presbyterian Church, 537 Indiana Ave., Indianapolis, taking bids 2 story and basement, 83 x 110 ft., rein.-con., brick and steel, Ewing and Vernon Sts., $150,000. L. H. Sturges, 527 Bd. Trade Bldg., Indianapalis, archt. Noted July 28.

Mich., Almont—HIGH SCHOOL—Sept. 30, by C. A. Sleiman, secy. Bd. Educ., 2 story and basement, 86 x 154 ft., rein.-con., brick and steel, plain foundation. $150,000. Warren Holmes-Powers Co., Tussing Bldg., Lansing, archts.

Mo., Webster Groves—DORMITORY—Sept. 27, by H. P. Hess, archt., 101 Ambassador Bldg., St. Louis, 5 story, 34 x 162 ft. and 36 x 128 ft., rein.-con., brick and stone, Lockwood and Plymouth Aves., for Webster Groves College, Lockwood and Plymouth Aves. Approximately $350,000. Noted Sept. 8.

Tex., San Antonio—GYMNASIUM — See "Contracts Awarded."

Calif., San Francisco—SCHOOL—Sept. 28, by Bd. Pub. Wks., fireproof annex, Folsom St., for City and San Francisco Co. $155,000. J. Reid, Jr., city, archt. Noted Jan. 27.

Calif., San Francisco — SCHOOL — L. J. Devlin, archt., Pacific Bldg., taking bids 2 story and basement, rein.-con., 23rd Ave. and Geary St., for Roman Catholic Archbishop, 1100 Franklin St. $150,000. Noted July 21.

Ont., Toronto—CHURCH—J. G. Morton, archt., 61 Dixon Ave., taking bids 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Hewett and Roncesvalles Aves., for High Park Baptist Church, 16 Radford Ave. $150,000. Noted Feb. 17.

Contracts Awarded

Mass., Boston — COLLEGE—Burdett Business College, 18 Boylston St., 5 story and basement, 115 x 150 ft., brick, plain foundation, Stuart, Warrenton and Carver Sts. to Olympia Constr. Co., 333 Washington St. Noted Aug. 11.

Mass., Everett (Boston P.O.)—SCHOOL—Our Lady of Grace Parish, T. J. Walsh, pastor, 3 story and basement, 60 x 125 ft., brick, steel and limestone, plain foundation, Nichol St., to A. B. Carter & Sons, 84 Tremont St., Boston. Archts. est. $200,000.

R. I., Providence—NURSES HOME—Homeopathic Hospital Corp., D. P. Moulton, secy., 2 story and basement, brick and stone plain foundation, Chalkstone Ave., to J. W. Bishop, Co., 93 Eddy St., Archts. est. $150,000. Noted Aug. 25.

N. Y., College Point (Ind. Sta. Flushing)—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P.S. 29, 3rd Ave., here, to L. J. Rice, 40 Vista Pl., Port Richmond, $323,570; plumbing, to J. A. Graf, 394 Waverly Ave. Brooklyn, $21,631; and heating, to D. J. Rice, 405 Lexington Ave., New York City, $51,187. Grand total $396,388. Noted Sept. 18.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P.S. 14, Eastern Blvd., and Baisley Ave., to Guidera & LaSalla, 391 East 149th St., $409,400; plumbing, to N. P. Lorenzo, 430 Pearl St., $25,154; and heating, to Heat Control Serv. Co., 759 Park Pl., $60,263. Grand total $494,817. Noted Aug. 25.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt., buildings, 19th and Chestnut Sts., general contract 3 story and basement, 73 x 167 ft., rein.-con. and brick, plain foundation, Ogden and 12th Sts., to W. Langhorne, 10 South 18th St. $322,000; and heating, to F. Wackenhut, 2416 Frankford Ave., $30,335. Noted Sept. 1.

Ala., Birmingham—COLLEGE—Miller & Martin, archts., Title Bldg., general contract 4 story, 50 x 125 ft., brick and steel, on campus to J. F. Holley Constr. Co., 817 North 19th St., for Birmingham-Southern College. $183,742.

Miss., Jackson—CHURCH—Calvary Baptist Congregation, H. M. King, pastor, Lemon and Capitol Sts., 3 story, rein.-con., brick and steel, etc. Capitol St., to I. C. Carber, Jackson. Archts. est. $200,000.

O., St. Bernard—HIGH SCHOOL—Sisters of St. Frances, 3 story and basement, brick and rein.-con., plain foundation, Bertus St., to J. & F. Harig Co., 1240 Queen City, Cincinnati, $300,000.

Ind., Indianapolis — FIELD HOUSE — Butler College, Fairview Campus, J. W. Atherton, secy., Fletchers Trust Bldg., steel contract 208 x 340 ft., rein.-con., brick and steel field house, incl. swimming pool, locker rooms and gymnasium to Central States Bridge Co., 601 Beecher St., excavation and foundations, to Marion Co. Constr. Co., 5 West St. Archts. est. $500,000.

Ind., Knightstown — SCHOOL — Soldiers & Sailors Orphans Home, L. A. Cortner, supt., general contract 2 story and basement, rein.-con., brick and steel school to H. Vahle Constr. Co., New Palestine, archts. est. $150,000; girls dormitory, to Krebay Constr. Co., 605 City Trust Bldg., Indianapolis, $60,000.

Mich., Fordson — SCHOOL—Bd. Educ., 3 story, rein.-con., brick and steel, plain foundation, Woodworth Site, to F. R. Patterson Constr. Co., 624 McKerchey Bldg., Detroit, $351,000.

Mich., Kalamazoo — CHURCH — First Methodist Episcopal Church, general contract 2 story and basement, rein.-con. and brick, incl. Sunday school, plain foundation, Park St., to H. L. Vanderhorst, West Main St. Archts. est. $400,000. Noted Dec. 9.

Tex., Amarillo — CHURCH — Polk St. Methodist Congregation, L. N. Stuckey, pastor, 4 story, 125 x 200 ft., rein.-con., brick, stone and terra cotta, 14th and Polk Sts., to Christy-Dolph, Constr. Co., 815 Rule Bldg., $400,000.

Tex., Brownsville — COLLEGE — Bd. Educ., junior college 2 story, rein.-con. and brick, plain foundation, to Walsh & Burney, 928 North Flores St., San Antonio, $220,300. Noted Aug. 18.

Tex., San Antonio — GYMNASIUM — St. Mary's University, West Side, will build 1 and 2 story, 100 x 130 ft., concrete, hollow tile, and brick, by cost plus or day labor basis. $150,000. L. M. J. Dielmann, 306 East Commerce St., archt. Noted Feb. 24.

Okla., Claremore—ACADEMY—Bd. Affairs, Capital, Oklahoma City, 2 story, 130 x 154 ft., rein.-con. and brick, plain foundation, on campus, for Oklahoma Military Academy, here, to Acme Constr. Co., Tulsa, $124,254. Noted Sept. 8.

Calif., Los Angeles — DORMITORY and CHAPEL—J. C. Austin & F. M. Ashley, archts., Chamber of Commerce Bldg., general contract 5 story, 46 x 146 ft., rein.-con., 2115 Ocean View Ave., to Macdonald & Driver, Bd. Trade Bldg., for St. Vincents Hospital, 1151 Sunset Blvd. $140,000. Noted July 7.

Constr. News page 156

Federal Government Work

Proposed Work

Ill., Great Lakes (mail Waukegan)—Electric Distributing System—Spec. 5458—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans electric distribution system, at Naval Training Station, here.

Bids Desired

Mass., Bedford—Pump—Oct. 11, by U. S. Veterans Bureau, Arlington Bldg., installing complete deep well pump and additional pumping unit at U. S. Veterans Hospital, here.

La., Monroe—Plumbing and Lighting—Sept. 20, by Treas. Dept., at office Supervising Archt., Wash., D. C., plumbing and lighting at U. S. Post Office, here.

Ky., Louisville — Dike—See "Contracts Awarded."

O., Akron—Post Office—Oct. 19, by Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here; adv. E. N.-R. Sept. 22.

Ind., New Castle—Sewer—Sept 27, by Treas. Dept., at office Supervising Archt., Wash., D. C., constructing new sewer here.

N. D. Jamestown—Post Office—Sept. 29, by Treas. Dept., at office Supervising Archt., Wash., D. C., supplemental bids for construction of post office, here.

Utah, Salt Lake City—Earthwork, etc.—Oct. 25, by Bureau Reclamation, earthwork and structures on Weber River Division, Salt Lake Basin Project, adv. E.N.-R. Sept. 22.

Ore., Nyssa — Cottages — Sept. 26, by Bureau Reclamation, 8 cottages and one frame office building at Owyhee Dam, here.

Calif., San Francisco—Wharf—Oct. 4, by Supt. Lighthouses, constructing wharf at Goat Island Lighthouse Depot, here.

T. H., Pearl Harbor—Barracks, etc.—Spec. 5407—Nov. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., barracks, subsistence building, laundry and boiler house at Naval Operating Base, (Submarine Base), here. Noted Sept. 8.

T. H., Pearl Harbor—Generating Plant Equipment — Spec. 5481 — Nov. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., steam generating plant equipment and piping Naval Operating Base (Submarine Base), here. Noted Sept. 1.

Bids Received

Mass., Marlboro — Post Office — Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here, from J. Miles & Son Co., Worcester, $5,337. Noted Aug. 25.

D. C., Anacosita (mail Wash.)—Boiler House stack—Constructing Quartermaster, Sept. 14, boiler house stack and heating system, at Bolling Field, here, from B. H. B. Ennis, Jr., Harford Rd. and Gibbons Ave., Baltimore, Md., $28,551.

Ala., Montgomery—Barracks—Quartermaster General, Wash., D. C., Sept. 12 constructing air corps barracks, at Maxwell Field, here from P. O. Woodcock, Myrtle St., Jacksonville, Fla., $98,475. Noted Aug. 18.

Tenn., Memphis—Shops—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Sept. 13, shop buildings at U. S. Veterans hospital, here, from Batson-Cook Co., West Point, Ga., $51,100; refrigerating plant from York Mfg. Co., York, Pa., $7,125. Noted Aug. 18.

Tenn., Nashville—Gates—U. S. Engineer Office, Sept. 6, from Nashville Bridge Co., foot Shelby Ave., gate for Lock A in Cumberland River, $14,970, gate for Lock B $14,790, gate for Locks A and B (combined) $21,970, and for Locks B and A (combined) $13,940. Noted Aug. 4.

Minn., Fort Snelling—Fence and Gates—U. S. Veterans Bureau, Arlington Bldg., Sept. 13, fence and gates at U. S. Veterans Hospital, here, from C. W. Olsen Mfg. Co., 1300 N. E. Quincy St., Minneapolis, $7,271.

Missouri—Dikes—U. S. Engineer Office, 428 Customhouse, St. Louis, Sept. 8, 6,000 lin.ft. piling dikes or hurdles on Mississippi River, at Missouri Sister Island, here, from Woods Bros. Constr. Co., 132 South 13th St., Lincoln, Neb., $267,000. Noted Sept. 1.

Contracts Awarded

N. J., Oceanport—Hospital—Constructing Quartermaster Fort Monmouth, constructing post hospital, here, to Hughes-Foulkrod

Federal Government Work (Continued)

Co., 809 Schaff Bldg., Phila., Pa., $83,950 (180 days). Noted Sept. 18.

Ky., Louisville—Dike—U. S. Engineer Office, will build dike across Sand Island, by own forces. To exceed $100,000. H. Pockras, ch. engr. in charge. Noted Aug. 25.

California—Road—C. H. Sweester, dist. engr. Bureau Pub. Rds., 461 Market St., San Francisco, grading and crushed rock or gravel surfacing 13.23 mi. Truckee-Meyers Section Route 30, Natl. Forest Highway, Nevada and Placer Counties, to Hemstreet & Bell, Maryville, $100,550. Noted Sept. 8.

T. H., Oahuth—Hospital, etc.—W. M. Scott, construct. div., Fort Shafter, hospital additions at Schofield Barracks, here, to R. R. Ames, Honolulu, $229,000. Noted Aug. 4.

FEDERAL POWER COMMISSION

Application for License and Permits

Applications

827—California Oregon Power Co., 454 California St., San Francisco, Calif., wants license transmission line on public lands in Klamath Co., Ore.

828—California Oregon Power Co., 454 California St., San Francisco, Calif., wants license transmission line on public lands in Jackson Co., Ore.

829—F. F. Faucett, Polson, Mont., wants preliminary permit diversion dam, pipe line, power house and transmission line in Deschutes Natl. Forest, Paulina Creek, Deschutes Co., Ore.

830—Southern Sierras Power Co., Riverside, Calif., wants license transmission line partly on public land in San Bernardino and Kern Counties.

831—Superior Packing Co., 805 Arctic Bldg., Seattle, Wash., wants license constructing project within Tongass Natl. Forest, on unnamed Creek, north shore of Tenakee Inlet, Chichagof Island, Alaska.

832—Bunker Hill and Sullivan Mining & Concentration Co., Kellog, Shoshone Co., Idaho, wants license power project in Payette Natl. Forest, on Deadwood River, in Valley Co.

833—J. R. Maurstad, Killisnoo, Alaska, wants license power project in Tongass Natl. Forest on Baranof Island, 1st Judicial Dist., Southeastern Alaska on Hidden Falls Lake.

834—B. G. Slining, Chicago, Ill., wants preliminary permit power project on Big South Fork of Cumberland River, in McCreary Co., Ky., and Scott Co., Tenn.

835—Twon Harbor Land Co., Aberdeen, Wash., wants preliminary permit power project on North River in Grays Harbor and Pacific Counties, Wash.

836—Seafoam Mines Corp., Seafoam, Idaho, wants preliminary permit power project within Challis Natl. Forest, on Float Creek, Custer Co.
Station A, here.

Unclassified

Proposed Work

Airport—Brockton, Mass—Owner c/o G. Varney, 1245 South Main St., plans airport, incl. 2 runways, hangars and electric light system on approximately 75 acres, Haywood Ave. $50,000. Haywood & Haywood, 28 Main St., engrs. Noted Aug. 25.

Beach Improvement, etc. — Dorchester (br. Boston), **Mass.**—City of Boston, Park Dept., plans improving Tenean Beach, here, $50,000; and constructing golf course probably here, $300,000.

Airport—Gardner, Mass. — Chamber of Commerce plans airport, at John Broch Farm Field. $25,000-$30,000. Engineer and architect not selected.

Arena — Lynn, Mass. — General Electric Co., 920 Western Ave., plans arena. $40,000. Private plans.

Airplane Hangar — Westfield, Mass. — Westfield Chamber of Commerce, c/o Aviation Com., plans steel airplane hangar to house 6 or 10 planes. $150,000.

Concrete Sheaths — Pittsburgh, Pa. — Dept. Pub. Wks. plans concrete sheaths and appurtenances in Aspinwall Rising Main, Canal St., Sharpsburg; and Guyasuta Run Crossing. $30,000. Bureau Engineering, City County Bldg., engrs.

Subway — Birmingham, Ala. — See "Bridges."

Traffic Signals, Lighting System, etc.—Cincinnati, O.—Rapid Transit Comrs., City Hall, plans traffic signals and lamps, incl. 41 standards, etc., $28,720, and ornamental lighting system, $76,934, both on Central Parkway. F. L. Raschig, City Hall, engr.

Ornamental Lights — St. Paul, Minn.—Making plans replacing ornamental lights in 6th St. between St. Peter St. and Bway. $28,000. J. W. Kelsey, city engr.

Street Lighting System—St. Louis, Mo.—Bd. Pub. Serv., 208 City Hall, takes bids in November, street lighting system in district bounded by Jefferson Ave. and Mississippi River between Cass Ave. and Mill Creek Valley, incl., 1,450 rein.-con., cast steel or c.i. standards, 400 with two 1,250 cp. lamps and 1,050 with one 1,500 cp. lamp, also 2,500 rein.-con. standards with 150 to 250 cp. single lamps, cable, sub-stations, etc. $1,000,000. J. Pritchard, City Hall, dir.

Natural Gas System—Texas—Prairie Gas Co., Amarillo, plans piping natural gas from Floyada to Amarillo, $200,000; also natural gas system in Floyada. $75,000. Private plans.

Oil Pipe Line—Texas—Humble Pipe Line Co., Corpus Christi, making preliminary plans approximately 450 mi. 8 in. oil pipe line from McCaney to Corpus Christi, $10,000,000. Private plans.

Swimming Pool—Houston, Tex.—City plans swimming pool in Herman Park. $75,000. S. J. and S. H. Hare, Huntzinger Bldg., Kansas City, Mo., engrs.

Pumping Plant—Plemons, Tex.—Phillips Petroleum Co., Bartlettsville, Okla., made plans pumping plant on Big Creek, a tributary of Canadian River, diverting 471 acre ft. water, in Hutchinson Co., near here. $75,000. Private plans.

Groynes — Long Beach, Calif.—Making plans restoring groynes each 300 ft. long and approximately 450 ft. apart. $95,000. A. H. Adams, 2277 Pine St., acting city engr.

Bids Desired

Cross-compound Engine, etc—Arlington (br. Boston)**Mass.**—Oct. 6, by Metropolitan Dist. Comn., 1 Ashburton Place, Boston, constructing and erecting cross-compound engine, crank and fly-wheel condensing pumping engine, 3 m.g.p.d. capacity for Arlington pumping station.

Heating Plant—North Attleboro, Mass.—Elm Amusement Co., J. Levenson, 27 School St., Boston, taking bids remodeling heating plant, etc. in Elm Theatre, North Washington St. $30,000. Funk & Wilcox, 25 Pemberton Sq., Boston, archts.

Borings—Brooklyn, N. Y.—Sept. 30, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, borings along Route 107, Livingston St., Lafayette, Marcy and Union Aves. and McCarron Park; Route 109, Smith and 9th Sts., Prospect Park, Prospect Ave., Fort Hamilton Parkway, and Gravesend Ave.; and Route 110, Fulton St., here.

Borings—New York, N. Y.—Sept. 28, by A. Goldman, comr. Plant & Structures. Municipal Bldg., land borings on site of Bronx Approach Triborough Bridge. Noted June 23 under "Bridges."

Steel Rails—Phila., Pa.—Sept. 29, by C. D. Young, genl. purch agt., for Pennsylvania R.R. Co., Broad Street Sta., 300,000 tons steel rails, Contr. 4309.

Heating, etc.—Chicago, Ill.—Sept. 29, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., steam heating in 3 school buildings, one at Leavitt and Lincoln Sts., one at 77th and Lincoln Sts., and other at 58th and Homan Sts.; also steam heating, ventilation, electrical work, etc. in school buildings at 81st and La Salle Sts. and at Major and Roscoe Sts. J. C. Christensen, 650 South Clark St., archt.

Aquarium—Chicago, Ill.—See "Buildings—Commercial."

Transmission Line — Texas — See "Contracts Awarded."

Truck Shed, etc.—Sheridan, Wyo.—See "Streets and Roads." under "Wyoming."

Contracts Awarded

Street Signs—Boston, Mass.—Dept. Pub. Wks., will construct 25,000 steel plate intersection street signs on wrought iron posts 8 ft. high, on various streets by day labor. $100,000. J. H. Sullivan, c/o owner, comr.

Transit Extension—Boston, Mass.—Transit Dept., 1 Beacon St., Sect. 2, Rapid Transit System Extension Dorchester, to A. G. Tomasello & Son, Inc., 250 Stuart St., $255,910 and Sect. 3 to C. & R. Constr. Co., 75 Brandeen St., Roslindale, $626,550. Noted Aug. 4.

Subway — Dorchester (br. Boston)—Transit Dept. 1 Beacon St., Boston, Sect. 4, Dorchester Rapid Transit System, to C. & R. Constr. Co., 75 Brandeen St., Roslindale, $401,565. Noted Aug. 11.

Electrical Equipment — Dorchester (br. Boston), **Mass.**—City, Transit Dept., 8 Beacon St., electrical equipment for Ashmont subway station, here, to General Electric Co., 84 State St., Boston, $74,400.

Conduits — New Britain, Conn.—Bd. Pub. Wks., conduits in Court, South High and Main Sts. to P. Suzio & Staff, 24 Wallace St., $22,443. This corrects report published in Aug. 25 issue.

Field Gymnasium—New Haven, Conn.—Yale University Athletic Assn., stone, brick and steel field gymnasium, plain foundation, Maltby Ave., to National Constr. Co., 151 Court St.

Track Installation, etc.—New York—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, installing tracks etc. Route 8, Sect. 6-A1, 6-A2, 14th St. Eastern line, Rapid Transit R.R., Brooklyn and Queens Boros, to McElroy & Kerwin, 187 Joralemon St., Brooklyn, $139,952. Noted Sept. 1.

Townsites—Texas—Delta Cities Co., c/o W. A. Harding, pres., Raymondsville, developing 21,300 acres, incl. grading streets, irrigating, etc. for townsites of Santa Margarita, Santa Monica, Lasara Hill and Rolle, Willacy Co., to Raybourn Constr. Co., c/o owners.

Transmission Line — Texas — Central Power & Light Co., Frost Bldg., San Antonio, will build 32 mi. transmission line from Cuero to Victoria, by day labor, $70,000. Private plans.

Street Lighting System—Portland, Ore.—Ornamental lighting system on 16 blocks 4th St. between Burnside and 15th Sts., to Northwest Electric Co., Pittock Bldg., $30,952; and 4th St. between Burnside and Jefferson Sts., to Jagger & Sroufe Co., 103 Park Ave. $41,768.

Culvert—Washington—See "Streets and Roads."

Lighting System—Los Angeles, Calif.—Ornamental lighting system on Coolidge Ave., Berryman and Minerva St., etc., to A. C. Rice, 1957 Santee St., $26,240.

Grand Stand, etc.—Toronto, Ont.—Ontario Jockey Club, 6 Leader Lane, general contract concrete, brick and steel grand stand addition, rebuilding members stand, also altering stewards and jockey quarters, to A. R. Holmes, Ltd., 6 Hayden St. Archts. est. $250,000.

Fir Stave Flume, Calgary, Alta.—Canadian Pacific Ry., fir stave flume, 2,600 ft. long, 15 ft. diam. carrying capacity 1000 second ft. on creosoted pile sub-structure, manufacture and constructing superstructure, to Pacific Coast Pipe Co., Ltd., Vancouver, B. C.; 33,000 lin.ft. creosoted coast fir piling and approximately 82,000 f.b.m. cresoted timber, to Alberta Wood Preserving Co., Ltd., driving, capping, and bracing approximately 16,000 lin.ft. creosoted piling 110,000 f.b.m., to Duff, Flint & Co., Regina, Sask. Total est. $85,000.

Materials

Proposed Work

Crushed Limestone—Stillwater, Okla.—City in market 2,700 tons 2 in. crushed limestone, for Street Dept.

Bids Desired

Pipe—New York, N. Y.—Sept. 28, by P. J. Dooling, comr. Purchase, Municipal Bldg., pipe, pipe fittings, valves, etc. to Police Dept. and Dept. Plants & Structures, Water Supply, Gas & Electricity, etc.

Plates, Bars, Boiler Tubes, Pipe, etc.—Phila., Pa.—Sept. 30, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., plates, bars, shapes, Contr. 108; axles Contr. 109; sheets, Contr. 110; boiler tubes and pipe, Contr. 111.

Bids Received

Water Pipe—Houston, Tex.—City, Aug. 24, 6- to 12-in. class "B" c.i. water pipe, from U. S. Cast Iron Pipe & Fdry Co., Magnolia Bldg., Dallas, $15,864. Engrs. est. $16,000.

Contracts Awarded

Steel — Boston, Mass. — City, Transit Dept., 1 Beacon St., 400 tons structural steel, to Bethlehem Steel Co., 100 Milk St., Boston, $20,948. Noted July 21.

See proposal advertising on page 123

Constr. News page 157

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Los Angeles, Calif.

Bids were opened by Board of Public Works, Aug. 22, for constructing First Street Viaduct over Los Angeles River, concrete arch, 2062-ft. long, including approaches, 71-ft. wide with 56-ft. roadway and two 5-ft. sidewalks, from (A) North Pacific Constr. Co., Detwiler Bldg.; (B) Lynch-Cannon Engr. Co.; (C) C. U. Heuser, Glendale; (D) R. Metcalfe; (E) Thomas Kelley & Sons; (F) MacDonald & Kahn; all contractors of Los Angeles, except (C). The unit bids are as follows:

	A	B	C	D	E	F
Arch centers, complete (lump sum)	$12,000.00	$11,000.00	$12,000.00	$10,000.00	$10,150.00	$20,000.00
2,000,000 lb. reinf. steel (lump sum)	81,000.00	82,250.00	90,000.00	113,257.00	92,089.00	87,500.00
12,705 cu.yd. class "A" conc	19.60	22.60	18.00	21.30	17.00	21.00
7,710 cu.yd. class "C" concrete	19.70	16.00	16.00	20.15	21.00	21.00
3 cu.yd. class "D" concrete	19.70	16.00	30.00	15.00	12.00	17.00
3,400 lin.ft. concrete piling	6,840.00	9,100.00	9,000.00	10,000.00	9,633.00	11,000.00
Concrete piles, unit price per ft	2.50	2.50	2.50	2.50	2.50	1.90
Excavating, grading, filling (lump sum)	8,800.00	8,500.00	15,000.00	15,000.00	30,015.00	15,500.00
3,330 lin.ft. cement curb	.60	.75	.90	1.00	.70	.75
3,340 sq.ft. concrete gutter	.25	.30	.30	.35	.30	.30
18,950 sq.ft. cement sidewalk	.20	.15	.15	.25	.20	.22
Sanitary sewer and storm drains, remodeling (lump sum)	4,380.00	3,800.00	10,000.00	8,000.00	6,154.00	7,000.00
Bituminous pavement (lump sum)	27,620.00	33,000.00	45,000.00	37,000.00	56,271.00	35,000.00
Curbs sur. column and Bent No. 3 bases (lump sum)	800.00	900.00	1,000.00	150.00	1,017.00	250.00
Ornamental handrail and pylons (lump sum)	29,950.00	33,200.00	39,000.00	22,238.00	60,425.00	42,500.00
Ornamental lighting system (lump sum)	23,000.00	20,000.00	32,000.00	22,200.00	31,155.00	30,000.00
Removing existing bridge (lump sum)	6,500.00	12,000.00	23,000.00	15,000.00	10,378.00	20,000.00
Totals	$613,477.00	$630,633.00	$634,981.00	$689,099.00	$692,343.00	$705,184.00

Engineering News-Record, Issue of Sept. 22, 1927.

Sewer—New Jersey

Bids were opened by City of Newark, July 7, for constructing Section V of supplementary joint trunk sewer in Cities of Newark, East Orange and Summit, Townships of Hillside, Maplewood, Millburn and Union, Towns of Irvington and West Orange, Borough of Roselle Park, and Village of South Orange, from (A) Spiniello Constr. Co., 493 Monroe St., Orange (awarded contract); (B) Pizzimenti Bros., Ridgewood; (C) J. Miele Constr. Co., 2261 Helburn Ave., Maplewood; (D) Martin & Miller; (E) Paulsen Constr. Corp., 21 E. 40th St., New York; (F) L. R. Gilbert, 212 Union Bldg., Plainfield; (G) A. A. Johnson Corp.; (H) J. W. Heller Co., Maplewood. Reinforced concrete pipe will be used on all sizes from and including 24-in. and upwards, and vitrified pipe will be used for balance of work. The unit bids are as follows:

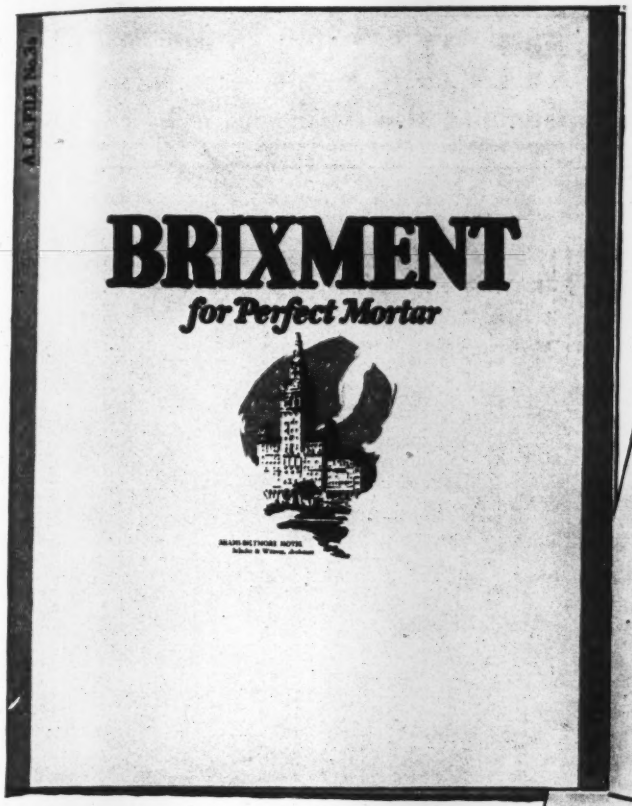
			A	B	C	D	E	F	G	H
1 A-1	1,800 cu.yd. class "A" rock excav. depth 0-10 ft.		$3.00	$8.00	$5.00	$5.00	$7.00	$5.00	$5.00	$7.00
1 A-2	4,200 cu.yd. class "A" rock excav. depth more than 10 ft.		5.00	10.00	5.50	6.00	7.50	5.50	6.80	10.00
1 B-1	1,500 cu.yd. class "B" excav. depth 0-10 ft.		2.00	5.00	4.25	3.00	6.00	5.00	3.55	5.00
1 B-2	3,500 cu.yd. class "B" excav. depth more than 10 ft.		2.25	5.00	5.00	3.25	6.50	6.00	4.95	8.00
1 C-1	4,100 cu.yd. class "C" quicksand depth 0-10 ft.		4.00	4.00	4.50	5.00	6.00	4.50	8.65	6.00
1 C-2	9,000 cu.yd. class "C" quicksand depth more than 10 ft.		4.00	5.00	5.50	6.00	6.50	5.00	11.55	7.00
1 D-1	35,000 cu.yd. class "D" earth excav. depth 0-10 ft.		1.75	1.50	2.00	1.50	4.00	1.85	2.73	3.50
1 D-2	1,900 cu.yd. class "D" earth excav. depth more than 10 ft.		4.00	4.00	2.50	2.00	6.00	3.00	3.70	5.00
3	29,000 lin. ft. 6 in. underdrains		.10	.50	.20	.50	.25	.10	.58	.60
4	450 M. ft. B.M. timber, untreated		55.00	50.00	70.00	50.00	20.00	30.00	40.00	100.00
4 A	2 M.ft. B.M. timbers, creosoted		250.00	200.00	150.00	200.00	130.00	100.00	248.00	200.00
6	6,000 sq.yd. temporary pavements		1.00	1.00	.75	2.50	.75	.50	1.30	2.00
6 A	3,000 sq.yd. sidewalks		.28	2.50	3.00	3.00	3.20	1.50	2.80	2.50
8 A	100 cu.yd. class "A" concrete		30.00	20.00	20.00	40.00	12.00	22.00	19.85	25.00
8 B	1,000 cu.yd. class "B" concrete		20.00	16.00	17.00	30.00	10.00	17.00	18.50	20.00
8 C	100 cu.yd. class "C" concrete		16.00	14.00	16.00	25.00	9.00	15.00	17.35	18.00
8 D	1,000 cu.yd. class "D" concrete		10.00	12.00	15.00	15.00	7.50	10.00	13.65	15.00
9	15,000 lb. reinforcement		.08	.08	.07	.10	.05	.05	.06	.10
11 A	1,020 ft. 42 in. rein.-con. sewer	0– 8 ft. deep	6.05	6.00	6.25	5.25	6.00	10.00	6.26	6.00
	500 ft.	8–12	6.10	6.20	6.25	5.75	6.00	11.00	6.39	6.50
	300 ft.	12–16	6.15	6.40	6.50	6.50	6.00	12.00	6.51	7.00
	400 ft.	16–20	6.25	6.75	6.50	7.50	6.00	14.00	6.57	7.50
	360 ft.	20–24	6.35	7.00	6.75	8.50	6.00	18.00	6.76	8.00
11 B	2,880 ft. 33 in.	0– 8	4.55	4.00	4.50	4.25	4.50	8.00	4.40	4.00
	1,120 ft.	8–12	4.60	4.20	4.50	5.00	4.50	9.00	4.53	4.50
	760 ft.	12–16	4.65	4.40	4.50	6.00	4.50	10.00	4.65	5.00
11 C	1,230 ft. 30 in.	10– 8	3.90	3.50	3.50	3.50	3.90	7.00	3.78	3.50
	930 ft.	8–12	3.95	3.70	3.50	4.25	3.90	8.00	3.91	4.00
	320 ft.	12–16	4.00	3.90	3.50	5.25	3.90	9.00	4.03	4.50
11 D	100 ft. 27 in.	0– 8	3.50	3.00	3.00	3.00	3.50	6.00	3.29	2.80
	3,125 ft.	8–12	3.55	3.20	3.00	3.50	3.50	7.00	3.41	3.20
	1,860 ft.	12–16	3.60	3.40	3.00	4.25	3.50	8.00	3.53	3.60
12 A	4,330 ft. rein.-con. pressure pipe 42 in.		11.00	8.00	9.50	8.50	8.00	11.00	10.66	11.00
13 A	100 ft. 24 in. vit. tile sewer	0– 8 ft. deep	4.00	3.50	3.90	3.00	3.20	5.50	4.22	3.50
11 E	100 24 in. rein.-con. sewer	0– 8	3.20	2.50	2.60	2.75	3.20	5.00	2.73	2.50
13 A	2,700 ft. 24 in. v. t.	8–12	4.00	3.70	3.90	3.25	3.20	6.00	4.34	3.75
11 E	2,700 ft. 24 in. r. c.	8–12	3.25	2.70	2.70	3.00	3.20	5.50	2.85	2.75
13 A	200 ft. 24 in. v. t.	12–16	4.05	3.90	3.90	3.75	3.20	6.00	4.46	4.00
11 E	200 ft. 24 in. r. c.	12–16	3.30	2.90	2.75	3.50	3.20	5.50	2.98	3.00
13 B	100 ft. 22 in. v. t.	0– 8	3.60	3.50	3.40	2.75	2.90	5.00	3.51	3.20
11 E*	100 ft. 24 in. r. c.	0– 8	3.20	2.50	2.60	2.50	2.90	4.50	2.73	2.50
13 B	910 ft. 22 in. v. t.	8–12	3.60	3.70	3.40	3.00	2.90	5.50	3.63	3.45
11 E*	910 ft. 24 in. r. c.	8–12	3.25	2.70	2.60	2.75	2.90	5.00	2.85	2.75

Engineering News-Record, Issue of Sept. 22, 1927.

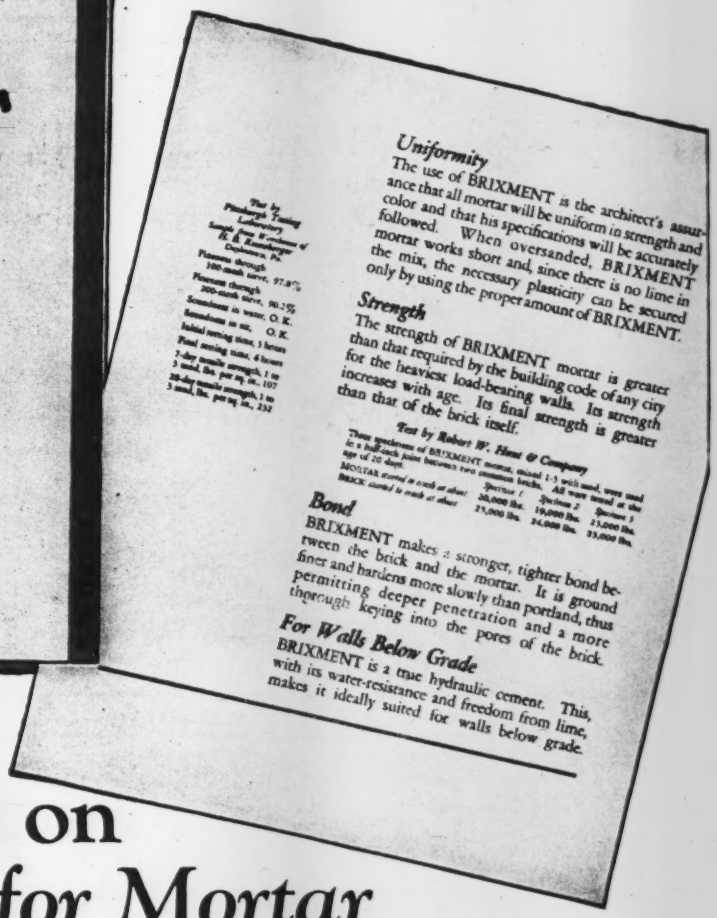
Concluded on page 72

Constr. News page 158

UNIT PRICES *Continued on page 158c*



In this ONE Book


Uniformity
The use of BRIXMENT is the architect's assurance that all mortar will be uniform in strength and color and that his specifications will be accurately followed. When oversanded, BRIXMENT mortar works short and, since there is no lime in the mix, the necessary plasticity can be secured only by using the proper amount of BRIXMENT.
Strength
The strength of BRIXMENT mortar is greater than that required by the building code of any city for the heaviest load-bearing walls. Its strength increases with age. Its final strength is greater than that of the brick itself.
Bond
BRIXMENT makes a stronger, tighter bond between the brick and the mortar. It is ground finer and hardens more slowly than portland, thus permitting deeper penetration and a more thorough keying into the pores of the brick.
For Walls Below Grade
BRIXMENT is a true hydraulic cement. This, with its water-resistance and freedom from lime, makes it ideally suited for walls below grade.

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UNIT PRICES

—On actual contracts gathered by field correspondents, also those sent in by readers

				A	B	C	D	E	F	G	H
13 B	400 ft. 22 in. v. t.	12–16		3.70	3.90	3.40	3.50	2.90	5.00	3.76	3.70
11 E*	400 ft. 24 in. r. c.	12–16		3.30	2.90	2.60	3.25	2.90	6.00	2.98	3.00
13 C	1,650 ft. 20 in. v. t.	0– 8		3.00	2.50	2.60	2.25	2.60	4.80	2.65	2.65
11 F*	1,650 ft. 21 in. r. c.	0– 8		2.95	2.50	2.70	2.00	2.60	4.80	2.63	2.40
13 C	3,330 ft. 20 in. v. t.	8–12		3.05	2.55	2.70	2.75	2.60	5.00	2.78	2.90
11 F*	3,330 ft. 21 in. r. c.	8–12		3.00	2.70	2.70	2.50	2.60	4.80	2.73	2.65
13 C	2,270 ft. 20 in. v. t.	12–16		3.10	2.60	2.70	3.25	2.60	4.80	2.90	3.15
11 F*	2,270 ft. 21 in. r. c.	12–16		3.05	2.90	2.70	3.00	2.60	4.60	2.88	2.80
13 C	400 ft. 20 in. v. t.	16–20		3.15	2.70	2.70	4.75	2.60	7.00	3.15	3.30
11 F*	400 ft. 21 in. r. c.	16–20		3.10	3.10	2.70	4.75	2.60	6.50	2.98	3.05
13 D	685 ft. 18 in. v. t.	12–16		2.65	2.60	2.20	2.00	2.15	4.70	2.55	2.35
11 G	685 ft. 18 in. r. c.	12–16		2.50	2.35	2.25	2.25	2.15	4.60	3.10	2.40
13 E	840 ft. 15 in. v. t.	0– 8		2.05	1.60	1.50	1.50	1.45	3.00	1.60	2.05
11 H	840 ft. 15 in. r. c.	0– 8		2.15	1.70	1.55	2.00	1.45	3.00	1.92	1.90
	2,700 ft. 15 in. v. t.	8–12		2.05	1.70	1.50	2.00	1.45	3.50	1.74	2.30
	2,700 ft. 15 in. r. c.	8–12		2.15	1.80	1.55	2.50	1.45	3.50	2.05	2.15
	910 ft. 15 in. v. t.	12–16		2.10	1.80	1.50	2.50	1.45	4.00	1.86	2.55
	910 ft. 15 in. r. c.	12–16		2.20	1.90	1.60	3.00	1.45	4.00	2.17	2.40
	80 ft. 15 in. v. t.	16–20		2.15	1.90	1.50	3.00	1.45	6.00	2.11	2.80
	80 ft. 15 in. r. c.	16–20		2.25	2.00	1.60	3.50	1.45	6.00	2.29	2.65
	115 ft. 15 in. v. t.	20–24		2.25	2.00	1.60	3.50	1.45	8.00	2.60	3.05
	115 ft. 15 in. r. c.	20–24		2.35	2.10	1.65	4.00	1.45	8.00	2.48	2.90
13 F	70 ft. 12 in. v. t.	8–12		1.60	1.05	1.00	1.00	1.10	3.40	1.05	1.50
11 J	70 ft. 12 in. r. c.	8–12		2.00	1.30	1.35	1.50	1.10	3.40	1.61	1.90
	620 ft. 12 in. v. t.	12–16		1.60	1.10	1.00	1.50	1.10	3.80	1.30	1.75
	620 ft. 12 in. r. c.	8–12		2.00	1.40	1.35	2.00	1.10	3.80	1.86	2.15
16	100 manholes depth 0–10 ft.			100.00	125.00	105.00	90.00	100.00	110.00	111.60	100.00
16 A	70 ft. extra depth			15.00	20.00	15.00	10.00	25.00	20.00	12.40	10.00
16 B	25 ft. drop manholes			20.00	10.00	25.00	10.00	15.00	10.00	12.40	15.00
16 D	25 lock manhole covers			5.00	5.00	20.00	10.00	20.00	10.00	6.20	25.00
16 E	10 pressure manholes			100.00	600.00	300.00	400.00	150.00	400.00	142.60	160.00
17	200 tee branches			3.00	5.00	10.00	6.00	5.00	3.00	4.34	20.00
19	135,000 sq.ft. bituminous coating			.10	.05	.04	.10	.04	.02	.04	.04
20	300 cu.yd. broken stone			10.00	6.00	6.00	5.00	5.00	3.00	6.20	4.00
21 A*	200 ft. 42 in. special short length c. i. sewer pipe			60.00	25.00	28.00	20.00	25.00	22.00	21.53	.....
*	390 ft. 36 in. special short length c. i. sewer pipe			50.00	20.00	24.00	17.00	20.00	20.00	14.76	.....
*	50 ft. 24 in. special short length c. i. sewer pipe			27.00	10.00	15.00	8.00	15.00	16.00	9.52	.....
21 B	200 ft. 42 in. class "A" c. i. pipe			22.00	25.00	26.00	20.00	25.00	25.00	18.04	30.50
	390 ft. 36 in. class "A" c. i. pipe			17.00	20.00	22.50	17.00	20.00	22.00	14.20	25.50
	50 ft. 24 in. class "A" c. i. pipe			10.00	10.00	14.00	8.00	15.00	18.00	8.18	17.00
22	25 cu.yd. rubble masonry			35.00	20.00	12.00	25.00	8.00	10.00	11.00	15.00
30	siphon at station 0+50 section 5 A			8,416.00	5,271.00	8,000.00	3,150.00	5,000.00	3,800.00	11,500.00	8,800.00
31	siphon at station 20+90 section 5 A			8,416.00	5,485.00	8,000.00	3,150.00	5,000.00	3,800.00	11,170.00	8,400.00
	Subtotal items 1 to 12			$338,877	$378,986	$387,145	$398,000	$454,919	$428,615	$498,779	$540,081
	Subtotal items 13 A to 13 F vitrified pipe			53,047	46,486	46,160	48,325	42,546	86,544	50,491	52,341
	Subtotal items 16 to 31			59,012	54,381	55,850	48,355	45,775	43,430	54,547	58,370
	Totals using vitrified pipe			$450,936	$479,853	$489,155	$494,680	$543,240	$558,589	$603,818	$650,792
	Subtotal items 1 to 12			$338,877	$378,986	$387,145	$398,000	$454,919	$428,615	$498,779	$540,081
	Subtotal items 11 E to 11 J rein. con. pipe			50,529	43,913	42,154	48,248	42,456	83,551	46,762	45,828
	Subtotal items 16 to 31			59,012	54,381	55,850	48,355	45,775	43,430	54,547	58,370
	Totals using rein. con. pipe			$448,418	$477,280	$485,149	$494,503	$543,240	$555,596	$600,089	$644,279

*Alternate to 21 B not included in total.

Engineering News-Record, Issue of Sept. 22, 1927.

Power House—Ponca City, Okla.

Bids were opened by City, July 14, for power house and yard structures, from (A) Interstate Constr. Co., 5703 Rockhill Rd., Kansas City, Mo., (awarded contract); (B) Holmboe Constr. Co., 426 West 2nd St., Oklahoma City; (C) Blaser-Vollmer Constr. Co., Ft. Scott, Kan.; (D) S. Patti Constr. Co., 626 Lee Bldg., Kansas City, Mo.; (E) Shallenberger Constr. Co., Tulsa; (F) Repass Bros. Co., 503 Frankel Bldg., Des Moines; (G) Carrothers & Forsythe Bldg. Co., Box 4658 Kansas City; (H) G. M. Robertson, 812 First Natl. Bank, Lincoln. The unit bids are as follows:

	A	B	C	D	E	F	G	H
Section No. 2—Power House & Salt House (lump sum)	$113,260.00	$124,800.00*	$122,900.00†	$118,515.00	$114,481.00‡	$ 39,471.00§	$139,500.00¶	$116,941.00
Earth excavation	.75	.90	1.17	1.45	.80	.75	.50	.60
Class "A" concrete	16.00	23.00	18.67	17.70	21.00	16.00	22.00	17.25
Deduction from lump sum if terra cotta is used	2,570.00	1,200.00	400.00	1,641.00	1,6 5.00	500.00	1,000.00	1,283.00
Deduction from lump sum if precast stone is used	4,100.00	3,300.00	3,400.00	3,701.00	3,290.00	3,000.00	3,000.00	3,290.00
Section No. 3—Oil reservoir, hot-well, and cooling tower (lump sum)	10,700.00	15,000.00	12,000.00	11,149.00	10,728.00	8,679.00	13,750.00	11,860.00
Earth excavation	.75	1.00	1.17	1.45	.80	.75	.50	.60
Class "A" concrete	16.00	22.50	19.81	22.15	21.00	17.00	22.00	17.25
Will begin work in—days	15	15	5	10	7	20	30	10
Will complete work by	180 days	150 days	180 days	3½ months	Dec. 15, 1927	May 1, 1928	April 1, 1928	180 working days
Totals sections No. 2 and 3	$123,960	$137,800	$134,900	$129,664	$125,209	$148,150	$153,250	$128,801

NOTE—*Deduct $2,000 if awarded contracts 2 and 3. †Price is contingent upon being awarded both contracts. ‡Proposal for section No. 3 is contingent upon section No. 2 being awarded. §Bid on section Nos. 2 and 3 to be considered as a unit. ¶Bid No. 3 to be considered only in case awarded contract Nos. 2.

Engineering News-Record, Issue of Sept. 22, 1927.

Constr. News page 158a